



Laboratory Guide 2020

Valid from 1st January 2020

TDL Customer Charter

We are committed to being the most helpful pathology service in the UK. Our goal is always to provide a high level of service to our customers, who request pathology services, for their patients. This is a philosophy shared by all Sonic Healthcare Pathology practices. We are medically led, and patients are our first concern. We always try to look to improve our operational expertise, and we strive to provide professional leadership within our specialities.

We promise to provide easy access to our pathology services

- · We will always provide a friendly, helpful service.
- Our automated laboratory departments operate 24 hours a day, 7 days a week, and we aim to achieve, or improve, our published turnaround times.
- Our medical consultants and laboratory teams are available to provide additional clarification, advice or information for tests or results.

We promise to help you

- We invest in technical and operational excellence, with an extensive test repertoire, to ensure access to a leading-edge laboratory service.
- We return results using the reporting method choice, in an as organised and safe way as possible.

We promise to support the communities we work in

- We do our utmost to provide a service, even during extreme external disruptions beyond our control.
- We are committed to our staff's continued professional development.
- We have an organised programme to provide young people with work experience.
- We support our local community.

We promise to listen

- We acknowledge customer issues, and try to resolve them promptly and consistently.
- If our delivery has been adversely affected, we will address and review our procedures so that our service reaches the highest standards.
- We actively ask for feedback so that we can continue to improve our service.

Complaints policy

It is the aim of the company to maintain its core values. Two of these core values are:

- Commit to service excellence.
- Be enthusiastic about continuous improvement.

Where a doctor or patient needs to raise a complaint about service levels they should contact Cyril Taylor, Director of Laboratory Compliance, or Annette Wilkinson, Director of Service at tdlservice@tdlpathology.com giving details of the complaint.

The information forwarded will be treated as confidential and investigated by the above persons. This process will link into Quality Management procedure for incident investigation. Corrective and preventative actions will be introduced where indicated.

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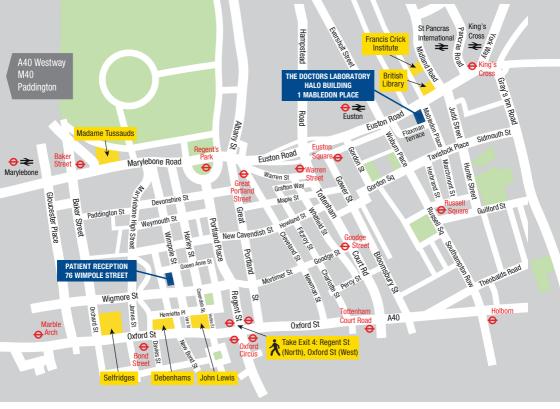
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Personal Profile (Doctor's own) are available on request.



THE DOCTORS LABORATORY

The Halo Building, 1 Mabledon Place, London WC1H 9AX Tel: 020 7307 7373 Fax: 020 7307 7374

E-mail: tdl@tdlpathology.com Web: www.tdlpathology.com

PATIENT RECEPTION/PHLEBOTOMY SERVICES

76 Wimpole Street, London W1G 9RT

Telephone: 020 7307 7383

Patient Reception Fax: 020 7307 7371 Email: patientreception@tdlpathology.com

OPENING TIMES

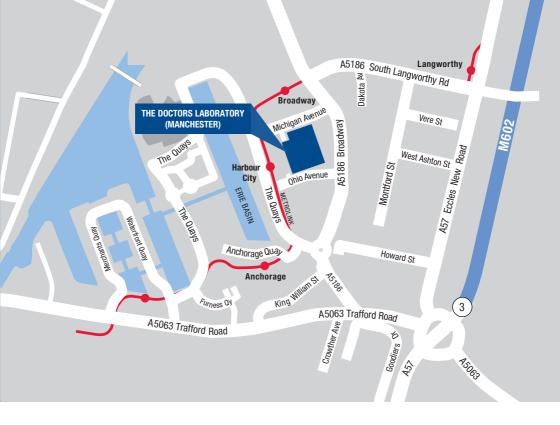
Monday to Friday 7.00am – 7.00pm Saturday 7.00am – 5.00pm Out of hours samples can be dropped at:

Patient Reception 76 Wimpole Street London W1G 9RT

Or at any time at the main laboratory:

The Halo Building 1 Mabledon Place London WC1H 9AX

Samples are taken at Patient Reception only. Samples cannot be taken at The Halo Building.



THE DOCTORS LABORATORY (MANCHESTER)

Michigan House, Michigan Avenue Salford Quays, Manchester M50 2GY

Tel: 0161 332 7181 Fax: 0161 332 7182

Web: www.tdlpathology.com

Samples can be dropped at the laboratory at any time.

COURIER COLLECTIONS

Tel: 0161 332 7187

The Laboratory Guide is designed to give you an easy-to-use reference for the most regularly requested services, pathology profiles and tests. If you are not able to find details for tests and services, please contact the laboratory on 020 7307 7373. We continue to develop a wide range of test and patient services and our aim is to offer commitment to customer service, strong working relationships and help and support for referring doctors and their practices.

For details about all services, please contact the laboratory on 020 7307 7373, or for more information visit www.tdlpathology.com.

LONDON LABORATORY TIMES: 24 HOURS

A wide range of analytical services are run 24/7 but not all tests or departments operate throughout the night, weekends, or bank holidays.

Outside routine hours the night team provide a wide range of analytical services but not all tests will be run as standard. No surcharges are made unless there are special arrangements for courier collections or investigations requiring additional resources.

Outside Patient Reception hours samples may be dropped off at 76 Wimpole Street, London W1G 9RT or at the laboratory at The Halo Building, 1 Mabledon Place, London WC1H 9AX (see page 4) at any time.

MANCHESTER LABORATORY TIMES: 24 HOURS

Samples may be dropped off at the laboratory at Michigan House, Michigan Avenue, Salford Quays, Manchester M50 2GY (see page 5) at any time.

MANCHESTER TURNAROUND TIMES

Tests not processed at our laboratory in Manchester will be referred to the TDL Main laboratory. If you need information about turnaround times please contact the laboratory.

PATIENT RECEPTION TIMES

Patient Reception is at:

76 Wimpole Street, London W1G 9RT

Monday to Friday 7.00am-7.00pm, Saturday 7.00am-5.00pm

Direct line tel: 020 7307 7383

Appointments are only necessary if a patient needs specialised investigations or care. Patients should always bring a request form or referral letter with them. Instructions can be faxed or telephoned ahead of the patient's attendance, if this is more convenient.

Patient Reception Direct line tel: 020 7307 7383 Fax: 020 7307 7371

Sample taking is undertaken by qualified staff for which a standard sample taking fee of £45.00 is charged to patients. A nominal fee of £20.00 is charged to doctors and clinics for each patient.

Sample taking services for extended tests (see page 125) and **Drugs of Abuse with Chain of Custody** are routinely available.

Cervical cytology, HVS and cervical swabs are not taken at 76 Wimpole Street.

Patient Reception sample taking services are not available in Manchester.

SEMEN ANALYSIS

Semen samples need specialist handling within the laboratory. For this reason all requests for Semen Analysis must be made by appointment. Practices or patients can make an online appointment at www.tdlpathology.com/andrologybooking or call **020 7307 7373** to make appointments and confirm instructions for sample collection.

- 1 Patients must abstain from ejaculation for at least 2 days but not longer than 5 days before the test
- 2 Ideally semen samples should be produced at The Doctors Laboratory, 76 Wimpole Street, unless there are exceptional circumstances. In these exceptional circumstances please contact TDL Andrology on 020 7025 7940 for special arrangements and instructions. Refer to Andrology, see page 56.

Post vasectomy semen analysis is not provided in Manchester.

PATIENT REQUEST FORM

To comply with good clinical practice it is important that there is one request form for each patient's request, and specimens and form are correctly and fully labelled, to include three unique patient identifiers:

- First name, Surname, Date of birth, Hospital/ Clinic number, Medical Record Number (MRN) are examples of patient identifiers
- Time and Date of collection of samples
- Type of sample and Anatomical site, where appropriate (e.g. swabs)
- Relevant clinical information

- Relevant details of medication
- High Risk Samples should be clearly identified on the form and individually packed separately from other samples
- Hazard Group 4 pathogens (such as Ebola or Viral Haemorrhagic Fever) must not be sent to the laboratory – please contact the National Fever Service on 0844 778 8990 for advice before sending samples to the laboratory

If additional tests are required for a sample already received please contact the laboratory on 020 7307 7373 with your request for specific further analysis. Samples are stored within timeframes according to their discipline. Laboratory staff will advise on the ability to undertake further testing from samples already received in the laboratory.

EMAILED REQUESTS FOR ADD ONS

The majority of samples received in the laboratory are kept for one week. If sample type and volume allow, further testing can be requested by telephone (020 7307 7373) or by email to **addons@tdlpathology.com**. Please specify the test details to be added, together with Patient details, and LABORATORY NUMBER need to be given with Emailed requests.

HOME VISITS

This service is available for patients who, for whatever reason, prefer samples to be taken at home or at locations other than a doctor's practice or TDL's Patient Reception at 76 Wimpole Street. This is a service that is used regularly to save time for both doctors and patients and ensures that results can be made available before consultation is undertaken.

There is a visit fee from £110.00 to patients within the M25, from £160.00 for children when two nurses are needed. Home visits outside the M25, for weekends, bank holidays and night fees are by special arrangement. To arrange a Home Visit please telephone Patient Reception on **020 7025 7997** or email homevisits@tdlpathology.com.

TDL COLLECT: SPECIMEN COLLECTION SERVICES BY COURIER

TDL operates a dedicated and extensive specimen collection service. **TDL Collect** provides a 24 hour professional sample collection service on an urgent, regular or random basis. No charge is made for collections from practice within the M25. Sample collection from practices outside the M25 is by arrangement and may incur courier charges.

TDL COLLECT Online Courier Booking is a time saving new service at **www.tdlpathology.com/couriers**. For your practice's Username and Password please contact Chris Tanalega on 020 7025 7929 or chris.tanalega@tdlpathology.com.

Our couriers are trained to Health and Safety guidelines and maintain our commitment to customer service. For added convenience to doctors and their patients, we also collect samples directly from patients' homes, offices or hotels within the M25.

To arrange courier collection of samples from other areas in the UK please telephone **020 7307 7373**.

High risk samples should be clearly labelled and packed separately from other samples.

TDL Collect cannot transport samples containing Hazard Group 4 pathogens, such as Ebola fever or Viral Haemorrhagic Fever.

TDL COLLECT UK NUMBER: 020 7307 7373

SAMPLE PACKING

Samples need to be transported for subsequent processing and testing. Transport systems will be various and cover both long or short distances.

Samples need to be collected and packed into appropriate sample containers provided by the laboratory in order to maintain integrity of the sample(s). Attention needs to be given to temperature, special transport containers and time limitations.

Clinics, practices and laboratories who are posting or transporting samples by air, sea, rail and road between local, regional and reference laboratories, or between laboratories in other countries, must adhere to a number of regulations. These regulations are designed to deal with transportation accidents and spills, reduce biohazards and keep samples intact for testing.

Regulations are given by several sources including

- National transport regulations
- IATA
- · Rail and road traffic agencies
- Postal services

Compliance is mandatory in order to reduce risk to couriers, carrier, laboratory staff and passengers.

Sample transport requirements are based on the category of samples being transported. Infectious substances are classified as Category A or Category B.

TDL does not arrange for transport of Category A samples (infectious substances capable of causing permanent disability or life threatening or fatal disease to humans or animals).

Instruction and packaging for Category B is provided, covering Biological Substances, UN number UN 3373.

PACKAGING REQUIREMENTS

There are specific packaging instructions and labelling requirements requiring triple packaging.

- 1 Primary leak-proof container tube or vial containing the sample
- 2 Secondary watertight container, with absorbent material, intended to protect the primary container
- 3 Outer container protects the secondary container

There are specific packaging instructions for frozen samples requiring shipment using BioFreeze bottles, or Dry Ice.

For information please contact the Referrals Dept (ReferralsOffice@tdlpathology.com)

POSTAL PATHOLOGY

TDL Postal Pathology services should be considered by all doctors in the UK who need a personal and rapid results service. Turnaround times for specific tests are detailed in the laboratory guide and are quoted from the time of receipt in the laboratory.

Postal Pathology is a particularly suitable method of transport for occupational health, insurance companies and general practice. Postal Pathology provides:

- Simple and convenient sample handling anywhere in the country for most tests, although not suitable for microbiology specimens
- Scope for large and small volumes of pathology
- Reliability and efficiency for most ranges of tests
- · Individual requirements accommodated

Only postal packs accepted by Royal Mail are suitable for the carriage of samples. TDL will
provide these at no additional cost. These must be labelled with 'Biological Substance Category B'
and must display the Diamond Mark and UN3373. Samples not expected to contain pathogens
should be labelled 'Exempt Human Specimen'.

PATHOLOGY CONSUMABLES/REQUEST FORMS/POSTAL PACKS

Our Stores Department provides all appropriate sample collection consumables required for sample collection. Orders will be sent same or next day and can be made by telephone (020 7307 7373), e-mail (supplies@tdlpathology.com) or fax 020 7307 7340. There is a Supplies Order Form at the back of this Laboratory Guide.

REQUESTING AND REPORTING OPTIONS

We continually review and update our IT Services for receiving requests and reporting results electronically between practices and the laboratory. A number of innovative report formats are now available.

Encrypted Email

Results will be sent in encrypted format to any number of predetermined email addresses. Copy reports will be emailed automatically to email addresses on the system.

Link to Practice Management System

Bidirectional requests and results can be delivered electronically to a number of integrated practice systems. Practice software that accepts data in an HL7 format can be linked to receive results from the laboratory.

All TDL systems are accredited to the latest International Standard for Information Security ISO/IEC 27001:2013.

TDL e-View

Registered users can view all their results online. This is a secure Login/Password protected look-up system, with a cumulative results reporting function. Results can be accessed any time, from anywhere, through the internet.

Printed Copy

Results are posted out on the day they are reported.

NEW TDL PORTAL

This provides the most accurate option for clinics without a practice management system. For information about this option please contact portal@tdlpathology.com.

EMAILED RESULTS INCORPORATING YOUR LOGO

If your practice or company receives results by email, and would like these personalised with your logo, simply email your company details and logo in GIF format to logo@tdlpathology.com.

TDL WEBSITE: WWW.TDLPATHOLOGY.COM

Our website contains comprehensive information on the range of tests and services we provide. The website is updated monthly with services and test information, including sample types, turnaround times, special instructions and information.

Reference Ranges are given on the website or by emailing refranges@tdlpathology.com

FEES FOR PATHOLOGY

Fees can be paid directly by patients or by the practice, clinic or requesting organisation. A payment instruction clearly identifying to whom invoices need to be sent must be given with each patient's request.

Patients are normally invoiced within 7 days to the address provided by the patient or practice. Their pathology fees include a standard credit/administration charge.

Receipts for insurance purposes are sent, if requested. Patients visiting Wimpole Street for sample taking have the opportunity to settle their pathology fees at the time of their visit. A credit/administration fee is raised for invoices sent to patients. All normal credit, debit or chargecards are accepted and payment can be made by following the telephone payment instructions given with each invoice.

The Terms and Conditions appearing on pages 203-210 of this Laboratory Guide shall apply to the services we provide to you, unless otherwise agreed.

PROTECTION OF PERSONALLY IDENTIFIABLE INFORMATION

The General Data Protection Regulation (GDPR) came in to force in May 2018 and has had a significant impact upon the way that personal data is managed; placing legal requirements upon data processors and controllers to manage that information securely, maintain records of the processing that is carried out, and report when breaches of the regulation do occur. This has impacted the way many businesses operate, and is not restricted to the healthcare sector.

The GDPR requirements have been implemented within the context of a mature ISO 27001 Information Security Management System — the globally accepted standard by which information is secured. This ensures that senior management have regular visibility of the threats to the confidentiality, availability and integrity of the information that we process, and are able to steer the efforts of their teams to provide an efficient service that places the confidentiality of our customers and their patients at the heart of everything we do.

In order to support our customers compliance with the regulation and as a part of a wider GDPR compliance project TDL has updated its standard terms and conditions to include revised data processing clauses, which are mandatory when providing personal data to another organisation.

WHO TO ASK FOR HELP

24 hour Telephone (Main Switchboard/All Services): 020 7307 7373

Fax: 020 7307 7374

CEO	David Byrne	david.byrne@tdlpathology.com
Group Laboratory Director	Tim Herriman	tim.herriman@tdlpathology.com
Director of Sales/Service	Annette Wilkinson	annette.wilkinson@tdlpathology.com
Director of TDL Genetics	Dr Lisa Levett	lisa.levett@tdlpathology.com
Chief Information Officer (IT) John Matthews		john.matthews@tdlpathology.com

HEADS OF SUPPORT DEPARTMENTS

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Labulatuly ocivice				
Compliance Director	Cyril Taylor	cyril.taylor@tdlpathology.com		
Director of QMG	Emer Nestor	emer.nestor@tdlpathology.com		
Patient/Doctor Invoices	Aneta Kontrova	aneta.kontrova@tdlpathology.com		
Logistics/Couriers	Steve Kettle	steve.kettle@tdlpathology.com		
Patient Reception/Home Visits	Eileen Flatley	eileen.flatley@tdlpathology.com		
Call Centre	Chris Tanalega	chris.tanalega@tdlpathology.com		
IT Operations/Customer Service	Rochelle Fakhri	rochelle.fakhri@tdlpathology.com		
Sample Reception	Peter Hill	peter.hill@tdlpathology.com		
Referrals Department	Maulik Trivedi	maulik.trivedi@tdlpathology.com		
Human Resources	Matthew Gibbins	matthew.gibbins@tdlpathology.com		

HEADS OF LABORATORY DEPARTMENTS (LONDON)

Haematology	Billy Janda	billy.janda@tdlpathology.com
Biochemistry	Dayan Lloyd-Hennie	dayan.lloyd-hennie@tdlpathology.com
Microbiology	Alan Spratt	alan.spratt@tdlpathology.com
Andrology	Andrew Dawkins andrew.dawkins@tdlpathology.com	
Cytology	Margaret Morgan	margaret.morgan@tdlpathology.com
Immunology/Virology	Kushen Ramessur	kushen.ramessur@tdlpathology.com
Cytogenetics	Rebecca Watts rebecca.watts@hslpathology.com	
Molecular Genetics	Dr Stuart Liddle	stuart.liddle@tdlpathology.com
TDL Trials	Abraham Roodt	abraham.roodt@tdlpathology.com
Night Service	Sanjiv Sawock	sanjiv.sawock@tdlpathology.com

TDL MANCHESTER

Systems Manager	Andy Leeson	andy.leeson@tdlpathology.com	
SRA Manager	Georgina Arnold georgina.arnold@tdlpathology.com		
Quality Manager	Eamonn Donnellan eamonn.donnellan@tdlpathology.com		
Courier Control	Marc Rennard marc.rennard@tdlpathology.com		













The Doctors Laboratory is committed to providing doctors with pathology of the highest quality. The quality of results is of fundamental importance and the laboratory operates to stringent technical and administrative standards.

Internal quality assurance is achieved by strict adherence to standard operating procedures for all analytical processes. TDL participates in recognised National External Quality Assessment Schemes. These schemes are subscribed to by NHS and private laboratories. Results are subjected to strict internal and external quality control. Details of the laboratories to whom TDL refers specialist testing are available from TDL Referrals. These laboratories are UKAS accredited or of equal accreditation status. Details of the tests that are referred are given on the TDL website. QA is administered by TDL's Quality Management Group (QMG) who also adhere to regulatory and accreditation requirements.

BIOCHEMISTRY: UKNEQAS, WEQAS, RIQAS, BIORAD for

ACE

ACTH (with PTH)
AFP/CEA & HCG

Antibiotics (Gentamicin, Vancomycin and Amikacin)

Anti-Hbs Detection

Ammonia

Autoimmune (RF and TPO)

B2 Microglobulin Cardiac Markers Clinical Chemistry CMV IaG/IaM

CRP & Ultra-Sensitive CRP

CSF

Cyclosporin and Tacrolimus

DEQAS

Diagnostic Serology Exanthem

Diagnostic Serology Hepatitis

Drugs of Abuse Ethanol

Faecal Markers for Inflammation (Calprotectin)

Free Beta HCG and PAPP-A

GFR

Glucose/Glucometer Glycated Haemoglobins Guildford Peptides Haematinics

Healthcontrol Therapeutic Drugs Screen (TDM)

Hepatitis A (with B and C)
Hepatitis B Serology
Hepatitis C Serology
HIV Serology
Homocysteine

HTLV

Immunity Screen

Lipase

Lipid Investigations
NT-Pro BNP
Paediatric Bilirubins
Parasitology
Peptide Hormones

PSA

PTH, ACTH and hCT Rubella IgG Serology Salicylate and Paracetamol

Specific Proteins Steroid Hormones Syphilis Serology Thyroglobulin Surveys

Thyroid Hormones

Total IgE

Toxoplasma IqG/M Serology

Tumour Markers

Toxoplasma IgM Serology

Toxoplasma IgG Serology

Trace Elements

Urine Chemistry

Vitamin D (25 OH)

HAEMATOLOGY: UKNEQAS for

Automated Differential Leucocyte Count

Blood Film Morphology

Coagulation (Including PoCT Coagulation)

EBV Mononucleosis

ESR and NRBC (nucleated Rbc)

Flow Cytometry

Leukaemia immunophenotyping

Myeloperoxidase

Iron stain

Full Blood Count

Haematology

Haematology Analysis

Malaria

Parasite Films Reticulocyte

Sickle Screening

Thrombophilia Screening

Factors assays:

Von Willebrand (vWD) screen

Anti-Xa assay

Plasma viscosities

TDL GENETICS: GENQA, ISFG, EMQN, UKNEQAS, LABQUALITY, ECAT for

Constitutional Clinical Cytogenetics (Rounds for Amniocentesis, CVS, Solid Tissue, Blood, Array CGH)

5 DOD 4 111 D 1 11

QF-PCR Aneuploidy Detection

Chlamydia & Gonorrhoea detection by PCR

Cystic Fibrosis

Duchenne/Becker Muscular Dystrophy

Hereditary Haemochromotosis (C282Y+H63D)

genotyping + reporting

HLA Class I (HLA-A, HLA-B, HLA-C) Tissue Typing

(low resolution)

 $\hbox{HLA Class II (HLA-DRB1, HLA-DQB1) Tissue Typing}\\$

(low resolution)

HLA-B27 Genotyping

HLA-B57*01 Genotyping

Human Papillomavirus DNA

Paternity Testing

Prader-Willi and Angelman Syndromes

Spinal Muscular Atrophy

STD Detection by PCR

Y Microdeletion PCR Assay

BoBs Rapid Aneuploidy detection

HLA+ Disease Typing

Cytochrome P450 2D6/2C19 genotyping

Thrombophilia (Factor II, V, MTHFR)

NIPT for aneuploidies

NIPT for sexing

MICROBIOLOGY: UKNEQAS, QCMD for

AAFB for Microscopy + Mycobacterium Culture

Antifungal Panel

Antifungal Susceptibility

Antimicrobial Susceptibility

Clostridium Difficile + MRSA Screening

Cryptococcal Antigen Detection (Pilot Scheme)

Faecal Parasitology

Faecal Haemoglobin EQA scheme

Fungal Biomarkers (Pilot Scheme)

General Bacteriology

Genital Pathogens

Molecular detection of Mycobacteria

Mycology

Urinary Antigen: Legionella

Urinary Antigens (Legionella and Pneumococcal antigen)

WEQAS Urinanalysis scheme

IMMUNOLOGY

UKNEQAS - General Immunology for:

Allergen Component Testing

Autoimmune Serology ANCA/GBM Antibodies

Bullous Dermatosis Antibodies

Coeliac Disease Antibodies

Allergen Specific IgE Antibodies

New General Autoimmune Serology

Anti-Phospholipid Antibodies

Nuclear and Related Antigens

AMH

IGRA TBQ

Intristic factor

Islet Cell Antibodies (Diabetic Marker)

FURODAS:

Allergy for specific IgE

UKNEQAS - Infectious Immunology for:

HIV Serology/POCT

Immunity Screen - VZV, Parvo Viruse, EBV

Chlamvdia Detect

Varicella Zoster (IgG) Serology

Parasite Serology

Chlamydia & Gonorrhoea (NAAT/PCR)

RIQAS Scheme:

Syphilis Serology

EBV

HSV Serology

ENDOCRINOLOGY: UKNEQAS for

Steroid Hormones

Peptide Schemes 1 to 4

Thyroid Scheme

Allergens Scheme

SHBG

Prostate Specific Antigen

Tumour Markers

PTH

Specific IgE/Total IgE

AFP/CEA

CYTOLOGY: EQA. TEQA for

NHSCSP (EQA for Gynaecological Cytopathology)

NHSCSP (TEQA for PAP stain)

Hologic Imager stain (TEQA)

NEQAS:

Urine Cytology

ANDROLOGY: UKNEQAS for

Semen Analysis Scheme

Information security:

Accredited by British Standards Institute ISO/IEC 27001:2013

LINKS TO THE UKAS SCHEDULES OF ACCREDITATION

HSL Blood Sciences (8169)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8169%20Medical%20Single.pdf

HSL Infection Sciences (8860)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8860%20Medical%20Single.pdf

HSL Molecular Pathology and Genetics (8059)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8059%20Medical%20Single.pdf

TDL Manchester (8812)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8812%20Medical%20Multiple.pdf

TDL Andrology (10199)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/10199%20Medical%20Single.pdf

HSL Cytology (8511)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8511%20Medical%20Single.pdf

MEASUREMENT OF UNCERTAINTY

Medical laboratories are responsible for ensuring that test results are fit for clinical application by defining analytical performance goals and selecting appropriate measurement procedures. All types of measurement have some inaccuracy due to bias and imprecision; therefore measurement results can only be estimates of the values of the quantities being measured. To properly use such results, medical laboratories and their clinical users need some knowledge of the accuracy of such estimates.

The complete result of a measurement is a value, a unit and an estimate of uncertainty. This estimate of uncertainty is conventionally referred to as Measurement Uncertainty (MU) and incorporates the cumulative range of factors involved in the testing procedure itself in addition to consideration of the inter-individual and intra-individual biological variation which will potentially influence the overall test result. Evaluating measurement uncertainty is an ISO 15189:2012 accreditation requirement.

In terms of MU determined by the TDL/HSL group of laboratories, it should be noted all assays are performed in strict accordance with the manufacturers' instructions. MU, which has been estimated for each assay during the verification procedure, is reviewed at regular intervals to ensure that MU values do not exceed the pre-defined maximum allowable uncertainty for each assay. Overall assay performance is also regularly monitored through internal quality control (IQC) and external quality assessment (EQA) schemes and incorporated in test result interpretation. MU for individual assays is available upon request.

SAMPLE REJECTION CRITERIA

Sometimes tests cannot be performed in the laboratory if samples fall short of the quality, volume or other eligibility criteria. In these cases, the laboratory may need to reject the samples, and not carry out processing. Sometimes the laboratory is able to rectify a situation – and although turnaround times may be affected, it avoids having to arrange for samples to be taken again.

Summary List for Sample Rejection

- Incorrect sample types received:
 - Basic incorrect blood tube/other sample.
 - Samples without the appropriate preservative (e.g. acidified urine samples).
 - Samples that are received ambient, when a frozen sample is required.
 - Samples that are received unprotected from light, when they are required to be covered at the point of venepuncture.
- Samples in incorrect containers (e.g. cervical cytology must be a ThinPrep vial; urine cytology must be in a uricyte container).
- Insufficient sample received.
- No sample received.
- Labelling or form issues (mislabelled/unlabelled/no forms/no clinical information).
- Clotted/haemolysed/lipaemic/icteric samples.
- Sample is broken or has leaked in transit.
- Stability time has been exceeded. Stability time is test dependant, and also refers to tests that can only be carried out on certain days of the week.

- Sample contamination (e.g. being in the same bag as a leaking sample).
- Samples are high risk or infectious.
- Samples that are received in expired tubes.

Department Specific

- Sample Reception will not accept samples packaged with needles of any kind.
- Haematology cannot accept frozen whole blood for testing.
- Coagulation cannot accept over or under filled samples for testing.
- Coagulation cannot accept previously frozen samples that have thawed in transit.
- Biochemistry cannot accept previously frozen samples that have thawed in transit.
- Biochemistry cannot accept samples that display antibody interference.
- Biochemistry cannot accept samples that have had separation delays/un-centrifuged samples that have been stored in the fridge.
- Biochemistry cannot accept paraprotein resulting in viscous samples.
- Biochemistry cannot accept CSF protein that is blood stained.
- Immunology cannot accept TBQ kits that:
 - Do not contain all of the appropriate tubes.
 - · Are incubated for more than the specified 16 hours.
 - Have passed the incubation time period.
 - Are over or under filled.
- Microbiology cannot accept samples in non-sterile containers or in formalin.
- Referrals cannot accept samples without three points of identification for DRP testing.
- Referrals cannot accept samples that are not labelled by hand for blood group testing.
- Molecular Pathology cannot accept samples for Haemophilia testing without informed consent.
- Cervical Cytology cannot accept over or under filled samples for testing.
- Cervical Cytology cannot accept samples received within three months of the previous test in order to allow epithelial cells to regenerate.
- Urine cytology cannot accept delayed samples unless they have been refrigerated.

Samples deemed to be PRECIOUS (e.g. CSF, fluid, tissue, bone marrow and paediatric samples) will not be discarded by the laboratory. Results will include a comment relating to the condition of the sample (e.g. sample unlabelled).

CONSULTANT ADVICE AND OPINION

Each department in the laboratory is consultant led. For doctors wanting clinical advice or professional support, TDL consultants can be contacted via the laboratory. Contact the consultant Haematologist to make arrangements for venesections for Haemochromatosis and polycythaemia.

TDL MEDICAL CONSULTANTS

GROUP MEDICAL DIRECTOR

Dr Rachael Liebmann BSc Hons, MB, BCh, BAO, FRCPath

FAcadMed. SFFMLM

HAEMATOLOGY/ BLOOD TRANFUSION

Professor Marie Scully MRCP, FRCPath

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MD FRCPath

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FRCPath

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FRCPath

GENETICS: MOLECULAR/ CYTOGENETICS

Professor Michael Patton

FRCP. FRCPCH

Consultant Clinical Geneticist

Special instructions for samples

- Contact the laboratory for special sample tubes/ containers/instructions.
- 2 Confirmation of not negative drug screens by GCMS may take up to 5 days.
- 3 Clinical history essential and protect from light.
- 4 Send to the laboratory without delay.
- 5 Do not send sample to the laboratory between Friday noon and Monday morning.
- 6 Contact the Referrals Department before taking and sending sample to the laboratory.
- 7 Sample should be separated and frozen if sending overnight.
- 8 DRP Form required. DRP Form can be found at the back of the guide.
- 9 Clinical history must be provided.
- 10 Contact the laboratory for special stability tubes for lymphocyte subsets – or take an EDTA sample and ensure same day delivery to the laboratory, Monday to Friday noon (do not send sample between Friday noon and Monday morning).
- 11 Patient consent required. Consent Form can be found at the back of this guide.
- 12 Please provide one sample for each person being tested.
- 13 Protect from light.
- 14 Provide details of travel history.
- 15 Ammonia

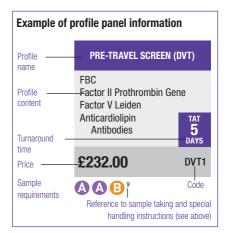
Sample: EDTA plasma only. Full tubes and tightly stoppered. On ice, centrifuged and analysed 20-30 mins post venepuncture (or plasma can be frozen). If haemolysed gives falsely high results. Patient: Fasting. Avoid smoking.

16 Lactate

Sample: Fluoride oxalate plasma only.
On ice and separate from cells 15-30 mins, analyse promptly. Handle with care as sweat contains large amounts of lactate. No tourniquet. Patient: Rest 30 mins prior to test.

- 17 Homocysteine Should be spun and separated with 1 hour of venepuncture.
- 18 Citrate Samples Samples should be double spun and separated and frozen within 4-8 hours of sample taking, if a delay is expected with transportation to the laboratory, samples must be transported as frozen.

- 19 Must include patient's age, height and weight.
- 20 Sample types: FCRU or PCR swab or TPV or Semen.
- 21 Urine cytology container, ideally first catch, mid-morning specimen.
- 22 Must be fresh.
- 30 Collect sample at end of exposure.
- 33 Sample must be labelled by hand with first name, family name, gender and date of birth detailed on sample and form. Do not use labels other than the tube label.
- 34 Samples must arrive in the laboratory on the same day of sample taking or contact the laboratory.
- 35 Patient should be fasting and resting for 30 mins before sample taking. Samples need handling urgently.
- 36 Renin: Sample collected either upright/active or resting/supine (3 hours lying).
- 37 Provide sample time and date of collection.
- 38 EDTA sample should not be separated: send whole blood.
- 39 Urgent samples have a 3 day TAT if genotype is required for prenatal diagnosis or two weeks TAT if urgent for other factors.
- 40 Informed Consent is required for these tests.
- 41 Recommendation for patient to attend Patient Reception for sample taking.
- 42 LGV can be added to a positive chlamydia sample using the same swab if requested within 4 days of receipt of result.



TDL Screening Profiles DL1–DL12

BIOCHEMISTRY DL₁ **PROFILE**

Urea and Electrolytes

Sodium, Potassium, Chloride, Bicarbonate, Urea, Creatinine,

Liver Function Tests

Bilirubin, Alk Phos, AST, ALT, Gamma GT, Total Protein, Albumin, Globulin

Cardiac/Muscle Enzymes

LDH. CK **Bone Markers**

Calcium, Phosphate, Uric Acid

Glucose **Triglycerides** Cholesterol Iron

Total Iron Binding

TAT 4 HOURS

£39.00* DL₁

DL1L £44.00°

HDL Cholesterol LDL Cholesterol Non-HDL Cholesterol

BG

BIOCHEMISTRY DL5 & HAEMATOLOGY **POSTAL PROFILE**

As DL4

DL5/DL5L do not include ESR and Phosphate as these results may be more affected by overnight transit times.

4 HOURS

£52.00* DL₅

DL₅L £57.00*

HDL Cholesterol LDL Cholesterol Non-HDL Cholesterol



BIOCHEMISTRY (24 PARAMETERS) DL₂ **& HAEMATOLOGY PROFILE**

HAEMATOLOGY

FBC with 5-part Diff **ESR**

BIOCHEMISTRY

Urea and Electrolytes

Sodium, Potassium, Chloride, Bicarbonate, Urea, Creatinine, eGFR

Liver Function Tests

Bilirubin. Alk Phos. AST. ALT. Gamma GT. Total Protein. Albumin, Globulin

Cardiac/Muscle Enzymes

LDH. CK

Bone Markers

Calcium, Phosphate, Uric Acid

Glucose **Triglycerides** Cholesterol

Iron/TIBC TAT 4 HOURS

£57.00* DL₂

DL2L £62.00*

HDL Cholesterol LDL Cholesterol Non-HDL Cholesterol



GENERAL WELL DL₆ PERSON PROFILE

DL₂ FT4/TSH Ferritin

4

£99.00* DL₆

DL6L £104.00

HDL Cholesterol LDL Cholesterol Non-HDL Cholesterol



HAEMATOLOGY DL3 **PROFILE**

FBC with 5-part Diff **ESR**

TAT 4 **HOURS**

DL3

£25.00*

A

DL4

BIOCHEMISTRY (16 PARAMETERS) & HAEMATOLOGY **PROFILE**

HAEMATOLOGY

FBC with 5-part Diff **ESR**

BIOCHEMISTRY

Renal Function

Urea, Creatinine, eGFR

Liver Function Tests

Bilirubin, Alk Phos. AST, ALT, Gamma GT, Total Protein, Albumin, Globulin

Bone Markers Calcium, Phosphate, Uric Acid

Glucose Triglycerides Cholesterol

4 **HOURS**

DL4

£52.00*

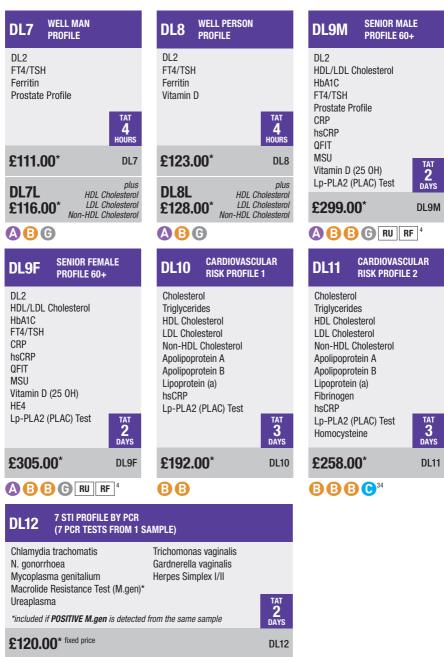
DI 41 £57.00*

HDL Cholesterol LDL Cholesterol Non-HDL Cholesterol





TDL Screening Profiles DL1–DL12



 ^{*} All DL Profiles are priced showing fees to doctor.

FCRU OR PCR Swab OR TPV OR Semen

Enhanced Liver Fibrosis (ELF) Test

ELF stands for Enhanced Liver Fibrosis. The ELF™ Blood Test is a routine blood test used to assess the severity of liver fibrosis. Liver fibrosis is the scarring process that represents the liver's response to injury or disease. Chronic liver disease can lead to liver fibrosis, liver cancer and death. Cirrhosis and liver cancer are now among the top ten causes of death worldwide, and in many developed countries, liver disease is now one of the top 5 causes of death in middle age. There are three main causes of fibrosis:

- · Fatty liver disease associated with obesity
- · Viral hepatitis B and C
- Type 2 Diabetes/Metabolic Syndrome
- Alcohol Abuse



The ELF Blood Test combines three serum biomarkers, which, when correlated, are able to identify a quantifiable level of liver fibrosis. The extent of liver damage is determined by a score based on the measurement of three substances:

- Hvaluronic acid (HA)
- Procollagen III amino terminal peptide (PIIINP)
- Tissue inhibitor of metalloproteinase 1 (TIMP-1)

The algorithm of these three markers creates an ELF Score. This ELF score has been proven to correlate to the level of fibrosis assessed by liver biopsy. The spectrum of liver disease can range from simple steatosis, to cirrhosis and may be present for many years in the absence of abnormal liver function tests — mild to moderate liver fibrosis can exist without symptoms, which in itself supports its use for early detection and assessment.

N	None to Mild Fibrosis Moderate F		Moderate Fibro	e Fibrosis Severe Fibrosis							
4.0	5.0	6.0	7.0	8.0 8.4 9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0

Use the ELF test as an aid in the diagnosis and assessment of the severity of liver fibrosis in patients with signs and symptoms of chronic liver disease.

This test offers the following benefits:

- · Identification of early or significant liver disease.
- Allows for cost effective screening test and subsequent review/follow-up response to treatment
- Minimally-invasive routine serum sample vs invasive biopsy
- · Mathematical algorithm to assess extent of liver damage

< 7.7	None to mild
\geq 7.7 to < 9.8	Moderate
≥9.8	Severe

NICE Guidelines

NICE (July 2016) recommends the use of the ELF test to screen and/or monitor advanced liver fibrosis in people diagnosed with Non Alcoholic Fatty Liver Disease (NAFLD). Risk factors for NAFLD, one of the most common types of liver disease, are high and this group of patients is a primary care challenge. Primary NAFLD is a condition where there is an excess of fat in the liver, not caused by excessive alcohol or secondary causes. NAFLD has become the most chronic liver disease in children and young people in industrialised countries, mainly as a result of obesity. There is no licensed treatment for NAFLD; early diagnosis and management are therefore important at all ages.

Link to NICE Guidelines: https://www.nice.org.uk/guidance/ng49/chapter/recommendations

TEST	CODE	SAMPLE REQS	TAT	PRICE
5 HIAA	RU5H	PU ¹	5 days	£83.00
5' Nucleotidase	5NT	В	5 days	£69.00
6-Thioguanine Nucleotides	TGN	AA	2 weeks	£147.00
21 Hydroxylase Ab's	21HA	(Frozen)	10 days	£192.00
Acetylcholine Receptor Autoantibodies	ACRA	B 4	5 days	£181.00
Acetylcholinesterase Isoenzymes	ACEI	AF	7 days	£194.00
Acid Phosphatase – Total	APT	В	5 days	£42.00
Adenosine Deaminase	AD	♠/B/Fluid	3 weeks	£244.00
Adiponectin	ADIP	B	2 weeks	£194.00
Albumin	ALB	B	4 hours	£24.00
Alcohol (Legal) Police Blood Sample	LALC	Police Sample	3 weeks	£232.00
Alcohol (Medical) [Do not use alcohol swab prior to sample taking]	ALC0	G ¹	4 hours	£68.00
Alcohol (Urine)	UALC	RU	4 hours	£68.00
Aldolase	ALD0	B	5 days	£50.00
Alk Phosphatase Isoenzymes	APIE	B	5 days	£98.00
Alkaline Phosphatase	ALP	B	4 hours	£24.00
Alpha 1 Antitrypsin (Serum)	A1AT	B	1 day	£98.00
Alpha 1 Antitrypsin (Stool)	A1AF	RF	10 days	£75.00
Alpha 1 Antitrypsin Genotype – PI*M, PI*S, PI*Z	GENE	A 9	4 weeks	£263.00
Alpha 1 Glycoprotein	OROS	B	5 days	£137.00
Alpha 1 Microglobulin	A1MG	RU 1,22	10 days	£70.00
Alpha 2 Macroglobulins	A2MG	B	5 days	£94.00
Alpha Feto Protein (Maternal)	AFPM	B	4 hours	£48.00
ALT (Alanine Aminotransferase) (SGPT)	ALT	B	4 hours	£24.00
Aluminium	ALUM	K	7 days	£64.00
Amino Acid (Serum/Plasma)	AMIN	B	7 days	£293.00
Amino Acid Quantitative (Urine)	UAAQ	RU	7 days	£293.00
Amino-Laevulinic Acid (Urine)	RUAL	100mls PU	5 days	£56.00
Ammonia	AMMO	A (Frozen) 15	4 hours	£76.00
Amylase	AMY	В	4 hours	£41.00
Amylase (Urine)	UAMY	CU	4 hours	£41.00
Amylase Isoenzymes	AMYI	B	5 days	£156.00
Amyloidosis (Amyloid A Protein)	SAA	B	5 days	£87.00
Androstanediolglucoronide	ANDG	B	3 weeks	£118.00
Angiotensin II	ANG2	(Frozen)	2 weeks	£119.00
Angiotensin Converting Enzyme	ACE	B	4 hours	£72.00
Angiotensin Converting Enzyme – CSF	ACEF	CSF (Frozen)	2 weeks	£100.00
Antimony (Urine)	ANTI	RU 30	10 days	£85.00
Antimullerian Hormone (AMH Plus)	AMH	B	4 hours	£105.00
AP50 Alternative Hemolytic Complement	AP50	(Frozen)	2 weeks	£110.00
Apolipoprotein A1 (12 hours fasting)	APOA	В	3 days	£61.00
Apolipoprotein B (12 hours fasting)	AP0B	B	3 days	£61.00

TEST	CODE	SAMPLE REQS	TAT	PRICE
Apolipoprotein C (12 hours fasting)	APOC	B	3 months	£73.00
Apolipoprotein E (12 hours fasting)	AP0E	(fasting)	5 days	£75.00
Arsenic (Blood)	ARS	A or H	5 days	£67.00
Arsenic (Urine)	ARSE	RU ³⁰	5 days	£67.00
Arylsulphatase A	ARYL	1 5,6	8 weeks	£264.00
Aspartate Transaminase (AST) (SGOT)	AST	В	4 hours	£24.00
Bence-Jones Protein	RBJP	1x30mls (RU)	5 days	£82.00
Beta 2 Microglobulin (Serum)	B2MG	В	2 days	£78.00
Beta 2 Microglobulin (Urine)	UB2M	RU	3 days	00.88£
Beta-Glucuronidase (Sly Disease)	BGLU	(1) (1) 9,4	8 weeks	£224.00
Bicarbonate	HC03	В	4 hours	£20.00
Bile Acids – Serum	BILE	В	4 hours	£53.00
Bilirubin (Direct/Indirect)	DBIL	В	4 hours	£24.00
Bilirubin (Total)	BILI	В	4 hours	£24.00
Bilirubin (Urine)	UBIL	RU	1 day	£26.00
Biotinidase	BIOT	(Frozen plasma) ⁴	3 weeks	£150.00
Bismuth	BISM	B	5 days	£130.00
BNP (NT-pro BNP)	BNP	B	4 hours	£76.00
Bone Alkaline Phosphatase	BALP	(Frozen)	2 weeks	£97.00
Bone Screen	BONE	₿ CU	4 hours	£64.00
Bone Screen (Bloods only)	BON2	B	4 hours	£104.00
BUN (Blood Urea Nitrogen)	BUN	B	4 hours	£26.00
C Reactive Protein	CRP	В	4 hours	£43.00
C Reactive Protein (High Sensitivity)	HCRP	B	4 hours	£43.00
C1 Esterase: Function & Total	FC1E	(Plasma Frozen) ^{4,18}	10 days	£159.00
C1q Binding Immune Complex	IMCP	B	5 days	£85.00
Cadmium (Blood)	CADM	A or H	5 days	£67.00
Cadmium (Urine)	URCD	RU ³⁰	5 days	£67.00
Calcium	CA	В	4 hours	£24.00
Calcium (24 hr Urine)	UCA	PU	4 hours	£26.00
Calcium/Creatinine Ratio	CACR	RU B	4 hours	£46.00
Carbohydrate Deficient Glycoprotein	CDG	B	2 weeks	£238.00
Carbohydrate Deficient Transferrin (CDT)	CDT	B 4	3 days	£130.00
Cardiac Enzymes (not chest pain)	CENZ	В	4 hours	£40.00
Cardiovascular Risk Profile 1	PP10	BB	3 days	£294.00
Cardiovascular Risk Profile 2	PP11	B B B C 34	3 days	£355.00
Carnitine – Free & Total	CARN	(Frozen Plasma)	10 days	£130.00
Ceruloplasmin	CERU	В	1 day	£46.00
Chest Pain Profile	CPP	В	STAT	£111.00
Chloride	CL	В	4 hours	£20.00
Cholesterol	CH0	В	4 hours	£22.00
Cholesterol (Familial Hypercholesterolaemia)			enetics sect	tion, page 108
Cholinesterase (Blood)	CHRC	•	5 days	£84.00

TEST	CODE	SAMPLE REQS	TAT	PRICE
Cholinesterase (Serum/Pseudo)	CHPS	В	4 hours	£45.00
Chromium (Blood)	CHRO	A	5 days	£59.00
Chromium (Urine)	URCR	RU 30	10 days	£59.00
Chromogranin A	CGA	В	5 days	£132.00
Chromogranin A & B	MTAB	J 1	3 weeks	£232.00
Citrate (Blood)	CITR	B	5 days	£72.00
Citrate (Urine)	UCIT	CU (Frozen)	5 days	£74.00
CK (MB Fraction)	CKMB	B	4 hours	£40.00
CK Isoenzymes	CKIE	B	5 days	£98.00
Cobalt (Blood)	COB	A	5 days	£67.00
Cobalt (Serum)	COBB	В	5 days	£67.00
Cobalt (Urine)	COBA	RU 30	5 days	£67.00
Coenzyme Q10	CQ10	B	2 weeks	£132.00
Cold Agglutinin	CAGG	J ¹	5 days	£53.00
Collagen (Type I, II, IV) Antibodies	COAB	B	10 days	£86.00
Collagen Type 1 Cross-Linked N-Telopeptide – NTX	NTX	2nd EMU	2 weeks	£79.00
Complement C1q	C1Q	B	5 days	£61.00
Complement C2	C2	В	10 days	£140.00
Complement C5	C5A	B	2 weeks	£140.00
Complement C6	C6	(Frozen)*	5 weeks	£64.00
Complement C7	C7	(Frozen)*	5 weeks	£64.00
Complement C8	C8	(Frozen)*	5 weeks	£65.00
Complement C9	C9	(Frozen)*	5 weeks	£64.00
Complement Factor H	FACH	B	3 weeks	£136.00
Copper (Serum)	COPP	В	5 days	£50.00
Copper (Urine)	URCU	CU	5 days	£50.00
Cortisol Binding Globulin	CBG	(Frozen)	1 month	£103.00
Creatine Kinase (CK, CPK)	CKNA	В	4 hours	£28.00
Creatinine	CREA	В	4 hours	£24.00
Creatinine (Urine)	UCR	CU	4 hours	£33.00
Creatinine Clearance	CRCL	■ CU	4 hours	£44.00
Crosslaps (Serum DPD)	SDPD	(Freeze within 24 hours)	4 days	£86.00
Cyclic Amp (Urine)	CAMP	CU (Frozen)	5 days	£97.00
Cyclosporin (Monoclonal)	CYCL	A	1 day	£109.00
Cystatin C	CYCC	В	5 days	£84.00
Cystine – Quantitative (Beta-CTX)	QCYS	PU	5 days	£105.00
Deoxypyridinoline (DPD) – Serum	SDPD	(Freeze within 24 hours)	4 days	£86.00
Deoxypyridinoline (DPD) – Urine	DPD	EMU	4 days	£86.00
Diabetic Profile 1	DIAB	A G	8 hours	£51.00
Diabetic Profile 2	DIA2	A G RU	2 days	£100.00
Electrolytes (Urine)	UELE	CU	4 hours	£34.00

^{*} Separate and freeze within 2 hours after collection.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Electrolytes	ELEC	В	4 hours	£28.00
ELF/Enhanced Liver Fibrosis	ELF	В	5-7 days	£165.00
Eosinophil Cationic Protein	ECP	В	7 days	£106.00
Faecal Fat (1 Day Collection)	TFFA	LF ⁶	5 days	£130.00
Faecal Fat (3 day)	FFAT	LF ⁶	5 days	£105.00
Faecal Lactoferrin	FLAC	RF	5 days	£70.00
Faecal Sugar Chromatography	FCR0	RF (Frozen)	3 weeks	£149.00
Faecal Urobilinogen	FUR0	RF	5 days	£46.00
Fat Globules in Faeces	FGL0	RF	1 week	£76.00
Ferritin	FERR	B	4 hours	£67.00
Fibrotest (Liver Fibrosis)	FIBT	B	2 weeks	£232.00
Fluoride (Urine)	UFL	RU	5 days	£97.00
Folate (Red Cell)	RBCF	A	2 days	£42.00
Folate (Serum)	F0LA	B	1 day	£42.00
Free Fatty Acids	FFA	(Frozen) 1	10 days	£110.00
Fructosamine	FRUC	B	3 days	£38.00
Fructose - Plasma	FRU	© 7 (Frozen)	5 days	£78.00
Galactose-1-Phosphate Uridyltransferase	GAL1	5,6	2 weeks	£209.00
Galactosidase – Alpha*	GALA	J	6 weeks	£254.00
Gall Stone Analysis	RSTA	STONE	10 days	£154.00
Gamma GT	GGT	В	4 hours	£22.00
Gastrin	GAST	(Frozen)	5 days	£98.00
Globulin	GLOB	В	4 hours	£26.00
Glucagon	GLUG	J 1	10 days	£181.00
Glucose	RBG	G	4 hours	£23.00
Glucose Tolerance Test			S	see page 125
Haemochromatosis – HFE common mutations C282Y+H63D	HMD	A 9	3 days	£190.00
Haemosiderin (Urine)	HSID	EMU	2 weeks	£90.00
Haptoglobin	HAPT	В	5 days	£61.00
HbA1c	GHB	A	6 hours	£44.00
HDL Cholesterol	HDL	B	4 hours	£35.00
HDL2 & HDL3 Fractions	HDLF	B	3 weeks	£97.00
Homocysteine (Quantitative)	номо	B 17	1 day	£78.00
Homocysteine (Urine)	HCYS	CU	2 weeks	£110.00
Homovanillic Acid (HVA)	HVA	PU	5 days	£85.00
Hyaluronic Acid	AHT	В	1 week	£59.00
Hydroxybutyrate Dehydrogenase	HBD	(Frozen)	1 week	£72.00
Hydroxyprolene	UHYD	CU	2 weeks	00.08£
IgG Subclasses	IGSC	В	4 days	£197.00
Immunoglobulin A	IGA	В	4 hours	£34.00

 ^{*} Sample must reach TDL Referrals Dept. urgently, to be tested within 24 hours of collection. Monday—Thursday only. Referrals to send immediately

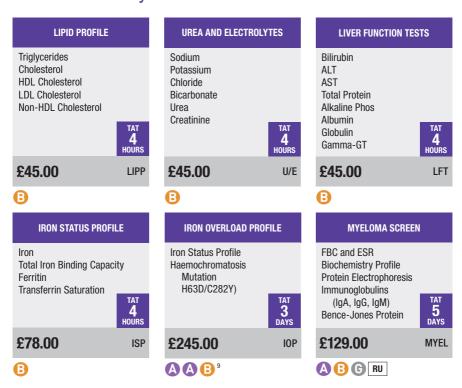
TEST	CODE	SAMPLE REQS	TAT	PRICE
Immunoglobulin D	IGD	В	5 days	£60.00
Immunoglobulin E – Total	IGE	В	1 day	£48.00
Immunoglobulin G	IGG	B	4 hours	£34.00
Immunoglobulin M	IGM	B	4 hours	£34.00
Immunoglobulins (IgG, IgM, IgA)	IMM	В	4 hours	£70.00
Insulin-Like Growth Factor 2	IGF2	B 6	1 month	£261.00
lodide – Urine	UIOD	RU	1 week	£112.00
Iodine – Serum	IODI	B	1 week	£94.00
Ionised Calcium	ICPA	B	5 days	£43.00
Iron (TIBC included)	FE	В	4 hours	£26.00
Iron Overload Profile	IOP	A B 9	3 days	£245.00
Iron Status Profile	ISP	B	4 hours	£78.00
Lactate (Plasma)	LACT	G 16	1 day	£66.00
Lactate Dehydrogenase (LDH)	LDH	В	4 hours	£28.00
Lactate Pyurvate Ratio	LPR	J^1	4-6 weeks	£117.00
Lactose Tolerance Test			Se	e page 125
LDH Isoenzymes	IS0L	В	5 days	£70.00
LDL7 Subfractions	LDL7	В	10 days	£210.00
Lead (Blood)	LEAD	A	5 days	£50.00
Lead (Urine)	URPB	RU	5 days	£50.00
Leptin	LEPT	B 19	5 days	£132.00
Leucine Amino Peptidase	LAP	В	5 days	£159.00
Lipase	LIPA	В	4 hours	£46.00
Lipid Profile	LIPP	В	4 hours	£45.00
Lipoprotein (a)	LP0A	B	4 hours	£49.00
Lipoprotein Electrophoresis	LEL	В	5 days	£69.00
Lithium (take 12 hours after dose)	LITH	В	4 hours	£41.00
Liver Fibrosis (Enhanced Liver Fibrosis ELF)	ELF	В	5-7 days	£165.00
Liver Fibrosis Fibrotest	FIBT	В	2 weeks	£232.00
Liver Function Tests	LFT	В	4 hours	£45.00
Lp-PLA2 (PLAC) Test	PLA2	В	2 days	£100.00
Lysosomal Enzyme Screen	LE	O O 6	2 months	£634.00
Lysozyme	LYS0	В	5 days	£72.00
Magnesium (Serum)	MG	В	4 hours	£34.00
Magnesium (Urine)	URMG	PU	1 day	£38.00
Manganese (Serum)	MANG	В	5 days	£64.00
Mannose Binding Lectin	MBL	В	3 weeks	£93.00
Mercury (Blood)	MERC	A or 🕕	5 days	£50.00
Mercury (Urine)	URHG	RU ¹	5 days	£67.00
Methaemoglobin	METH	A	3 days	£80.00
Methaqualone	METQ	RU	5 days	£33.00
Methylmalonic Acid – Serum	MMAS	В	5 days	£189.00
Methylmalonic Acid – Urine	MMA	CU	2 weeks	£118.00
Microalbumin (Urine)	UMA	RU	4 hours	£62.00

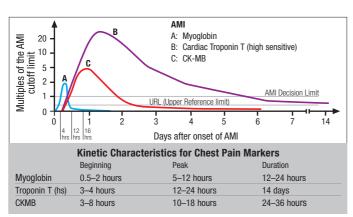
TEST	CODE	SAMPLE REQS	TAT	PRICE
Mucopolysaccharides	MPS	RU (Frozen)	3 weeks	£113.00
Myeloma Screen	MYEL	△ B G RU	5 days	£129.00
Myoglobin (Serum)	SMY0	B	4 hours	£61.00
Myoglobin (Urine)	UMY0	RU	5-10 days	£86.00
Newborn Screening Panel	GUTH	J 1	2 weeks	£153.00
Nickel (Serum)	NICK	B	5 days	£63.00
Nickel (Urine)	NICU	RU	5 days	£67.00
NMP22 (Bladder tumour)	NMP	J ¹	4 days	£75.00
Oligosaccharides	UOLI	RU	6 weeks	£194.00
Orosomucoid (A1AG – Alpha 1 Glycoprotein)	OROS	B	5 days	£137.00
Osmolality (Serum)	0SM0	B	1 day	£43.00
Osmolality (Urine)	ROSM	RU	1 day	£41.00
Osteoporosis Screen	0PS	BB	4 days	£144.00
Oxalate (Plasma)	POXA	(Frozen)	7 days	£85.00
Oxalate (Urine)	UOXA	PU	5 days	£72.00
Pancreatic Peptide	PP	J	4 weeks	£188.00
Parathyroid Related Peptide	PTRP	\mathbf{J}^1	2 weeks	£133.00
PEth (Phosphatidylethanol)	PETH	A 38	5-7 days	£91.00
Phencyclidine (PCP)	DUST	RU	5 days	£66.00
Phosphate	PH0S	B	4 hours	£22.00
Phosphate (24 hr Urine)	UPH	PU	4 hours	£34.00
PLAC Test (Lp-PLA2)	PLA2	B	2 days	£100.00
Plasminogen	PLAS	(Frozen plasma) ⁴	5 days	£72.00
Plasminogen Activator Inhibitor – 1	PAI1	(Frozen plasma)	2 weeks	£222.00
Porphyrin (Blood)	PORP	A 3	15 days	£186.00
Porphyrins (Faeces)	FPOR	RF ³	3 weeks	£106.00
Porphyrins Full Screen (Total:Urine, Stool, Blood)	PORS	♠ RU,RF³	3 weeks	£424.00
Porphyrins Screen (Urine)	RPOR	RU ³	3 weeks	£136.00
Potassium	K	B	4 hours	£22.00
Pregnancy (Serum) [Quantitative]	QHCG	B	4 hours	£49.00
Pregnancy Test (Urine)	PREG	RU	4 hours	£32.00
Procalcitonin	PCAL	(Frozen) ^{4,7}	1 day	£92.00
Procollagen 1 Peptide N-Terminal (NTX)	P1NP	B	5 days	£244.00
Procollagen III Peptide	PRC0	B	5 days	£135.00
Propoxyphene	DPR0	RU	5 days	£93.00
Prostatic Acid Phosphatase	PACP	(Frozen)	3 days	£50.00
Protein (Urine)	UPRT	CU	4 hours	£33.00
Protein 14.3.3 (Creutzfeldt–Jakob Disease)	CJD	CSF (Frozen)	5 weeks	£445.00
Protein Electrophoresis incl. immunoglobin	PRTE	B	2-4 days	£91.00
Protein Total (Blood)	PROT	B	4 hours	£22.00
Protein/Creatinine Ratio (Urine)	UCPR	RU	4 hours	£62.00
Renal Calculi Screen (Metabolic)	RSPR	J ⁶	5 days	£150.00
Renal Stone Analysis	RSTA	STONE	10 days	£154.00
Retinol Binding Protein	RBP	B	3 days	£53.00

Biochemistry

Salicylates	TEST	CODE	SAMPLE REQS	TAT	PRICE
Selenium (Whole Blood) SELR Or (1) 4 days £62.00 Serum Free Light Chains SLC 3 1 week £265.00 Silver (Blood) SILV 3 5 days £87.00 Silver (Urine) USIL RU 5 days £87.00 Sodium NA 3 4 hours £222.00 Superoxide Dismutase Inhibitor SODI 3/(1) 5 days £86.00 Thiopurine Methyl Transferase TPMT 3 5 days £122.00 Tissue Polypeptide Antigen TPA 6 1 week £147.00 Total Acid Phosphatase APT 3 1 week £147.00 Total Bile Acid/Bile Salts BILS 3 1 week £68.00 Total Ige IGE 3 1 day £68.00 Transferrin TRAN 3 1 day £69.00 Transferrin Electrophoresis TREL 3 2 weeks £224.00 Tringlycerides TRI 3 4 hours £26.00 </th <th>Salicylates</th> <th>SALI</th> <th>B</th> <th>4 hours</th> <th>£47.00</th>	Salicylates	SALI	B	4 hours	£47.00
Serum Free Light Chains SLC ① 1 week £265.00 Silver (Blood) SILV ① 5 days £87.00 Silver (Urine) USIL RU 5 days £87.00 Sodium NA ① 4 hours £22.00 Superoxide Dismutase Inhibitor SODI ②/ℓ♣ 5 days £122.00 Thiopurine Methyl Transferase TPMT ② 5 days £122.00 Tissue Polypeptide Antigen TPA ① 1 week £147.00 Total Bile Acid/Bile Salts BILS ① 1 week £68.00 Total IgE IGE ① 1 day £68.00 Transferrin TRAN ① 1 day £69.00 Transferrin Electrophoresis TREL ① 2 weeks £224.00 Triglycerides TRI ① 4 hours £26.00 Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks £216.00 Tryptase STRY ① 2 days £150.00 <th>Selenium (Serum)</th> <th>SELE</th> <th>B</th> <th>4 days</th> <th>£62.00</th>	Selenium (Serum)	SELE	B	4 days	£62.00
Silver (Blood) SILV 3 days £87.00 Silver (Urine) USIL RU 5 days £87.00 Sodium NA 3 dhours £22.00 Superoxide Dismutase Inhibitor SODI 3 dhours £22.00 Thiopurine Methyl Transferase TPMT 3 5 days £86.00 Tissue Polypeptide Antigen TPA 3 1 week £147.00 Total Acid Phosphatase APT 3 5 days £42.00 Total Bile Acid/Bile Salts BILS 3 1 week £68.00 Total IgE IGE 3 1 day £48.00 Transferrin TRAN 3 1 day £48.00 Transferrin Electrophoresis TREL 3 2 weeks £224.00 Triglycerides TRI 3 4 hours £87.00	Selenium (Whole Blood)	SELR	(A) or (1)	4 days	£62.00
Silver (Urine) USIL RU 5 days £87.00 Sodium NA 1 4 hours £22.00 Superoxide Dismutase Inhibitor SODI 4 hours £22.00 Thiopurine Methyl Transferase TPMT 5 days £122.00 Tissue Polypeptide Antigen TPA 1 1 week £68.00 Total Acid Phosphatase APT 1 5 days £42.00 Total Bile Acid/Bile Salts BILS 1 week £68.00 Total IgE IGE 1 day £48.00 Transferrin TRAN 1 day £69.00 Transferrin Electrophoresis TREL 3 2 weeks £224.00 Triglycerides TRII 1 4 hours £87.00 Triglycerides TRII 1 4 hours £87.00 Triglycerides TRI 1 4 hours £87.00 Triglycerides TRI 1 4 hours £87.00 Triglycerides TRI 1 4 hours £87.	Serum Free Light Chains	SLC	B	1 week	£265.00
Sodium	Silver (Blood)	SILV	B	5 days	£87.00
Superoxide Dismutase Inhibitor SODI	Silver (Urine)	USIL	RU	5 days	£87.00
Thiopurine Methyl Transferase TPMT	Sodium	NA	B	4 hours	£22.00
Tissue Polypeptide Antigen TPA ③ 1 week £147.00 Total Acid Phosphatase APT ③ 5 days £42.00 Total Bile Acid/Bile Salts BILS ③ 1 week £68.00 Total IgE IGE ⑤ 1 day £48.00 Transferrin TRAN ⑥ 1 day £69.00 Transferrin Electrophoresis TREL ⑥ 2 weeks £224.00 Triglycerides TRI ⑥ 4 hours £26.00 Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks £316.00 Troponin T (High sensitive) TROT ⑥ 4 hours £26.00 Tryptase STRY ⑥ 2 days £127.00 Tumour Necrosis Factor – Alpha TNF ⑥ (Frozen) ⁴ 2 weeks £150.00 Urea (Urice) UA ⑥ 4 hours £26.00 Urea (Urine) UJRE CU 4 hours £26.00 Urea (Urine) UJRE CU 4 hours £36.00 <th>Superoxide Dismutase Inhibitor</th> <th>SODI</th> <th>A/(</th> <th>5 days</th> <th>£86.00</th>	Superoxide Dismutase Inhibitor	SODI	A / (5 days	£86.00
Total Acid Phosphatase	Thiopurine Methyl Transferase	TPMT	A 5	5 days	£122.00
Total Bile Acid/Bile Salts	Tissue Polypeptide Antigen	TPA	B	1 week	£147.00
Total IgE IGE ③ 1 day £48.00 Transferrin TRAN ③ 1 day £69.00 Transferrin Electrophoresis TREL ③ 2 weeks £224.00 Triglycerides TRI ⑥ 4 hours £26.00 Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks £316.00 Troponin T (High sensitive) TROT ⑥ 4 hours £87.00 Tryptase STRY ⑥ 2 days £127.00 Tumour Necrosis Factor – Alpha TNF ⑥ (Frozen) ⁴ 2 weeks £150.00 Urate (Uric acid) UA ⑥ 4 hours £26.00 Urea UREA ⑥ 4 hours £26.00 Urea (Urine) UURE CU 4 hours £26.00 Urea Electrolytes (Urine) UELE CU 4 hours £34.00 Uric Acid (Serum) UA ⑥ 4 hours £36.00 Uric Acid (Serum) UA ⑥ 4 hours £36.00 <	Total Acid Phosphatase	APT	B	5 days	£42.00
Transferrin TRAN □ 1 day £69.00 Transferrin Electrophoresis TREL □ 2 weeks £224.00 Triglycerides TRI □ 4 hours £26.00 Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks £316.00 Troponin T (High sensitive) TROT □ 4 hours £87.00 Tryptase STRY □ 2 days £127.00 Tumour Necrosis Factor − Alpha TNF □ (Frozen)⁴ 2 weeks £150.00 Urate (Uric acid) UA □ 4 hours £26.00 Urea UREA □ 4 hours £26.00 Urea (Urine) UURE CU 4 hours £26.00 Urea and Electrolytes U/E □ 4 hours £26.00 Urea and Electrolytes (Urine) UELE CU 4 hours £26.00 Urea Electrolytes (Urine) UELE CU 4 hours £26.00 Uric Acid (Serum) UA □ □ 4 hour	Total Bile Acid/Bile Salts	BILS	B	1 week	£68.00
Transferrin Electrophoresis TREL ③ 2 weeks £224,00 Triglycerides TRI ⑤ 4 hours £26,00 Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks £316,00 Troponin T (High sensitive) TROT ⑥ 4 hours £87,00 Tryptase STRY ⑥ 2 days £127,00 Tumour Necrosis Factor – Alpha TNF ⑥ (Frozen) ⁴ 2 weeks £150,00 Urae UREA ⑥ 4 hours £26,00 Urea UREA ⑥ 4 hours £26,00 Urea and Electrolytes U/E ⑥ 4 hours £26,00 Urea and Electrolytes (Urine) UELE CU 4 hours £30,00 Uric Acid (Serum) UA ⑥ 4 hours £34,00 Uric Acid (Urine) UURI CU 4 hours £35,00 Urine Free Light Chains UFLC RU 1 week £318,00 Urine Organic Acids UORG RU (Frozen) 3 weeks <th>Total IgE</th> <th>IGE</th> <th>B</th> <th>1 day</th> <th>£48.00</th>	Total IgE	IGE	B	1 day	£48.00
Triglycerides TRI ③ 4 hours £26.00 Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks £316.00 Troponin T (High sensitive) TROT ③ 4 hours £87.00 Tryptase STRY ③ 2 days £127.00 Tumour Necrosis Factor – Alpha TNF ⑤ (Frozen)⁴ 2 weeks £150.00 Urate (Uric acid) UA ⑥ (Frozen)⁴ 2 weeks £150.00 Urea UREA ⑥ (Frozen)⁴ 4 hours £26.00 Urea (Urine) UURE CU 4 hours £26.00 Urea and Electrolytes U/E ⑥ 4 hours £26.00 Urea Electrolytes (Urine) UELE CU 4 hours £34.00 Uric Acid (Serum) UA ⑥ 4 hours £26.00 Uric Acid (Urine) UURI CU 4 hours £35.00 Uric Acid (Urine) UURI CU 4 hours £35.00 Urine Free Light Chains UFLC RU 1 week £318.00 <th>Transferrin</th> <th>TRAN</th> <th>B</th> <th>1 day</th> <th>£69.00</th>	Transferrin	TRAN	B	1 day	£69.00
Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks £316.00 Troponin T (High sensitive) TROT 3 4 hours £87.00 Tryptase STRY 3 2 days £127.00 Tumour Necrosis Factor − Alpha TNF 3 (Frozen)⁴ 2 weeks £150.00 Urate (Uric acid) UA 3 4 hours £26.00 Urea UREA 3 4 hours £26.00 Urea (Urine) UURE CU 4 hours £26.00 Urea and Electrolytes (Urine) UELE CU 4 hours £34.00 Uric Acid (Serum) UA 3 4 hours £34.00 Uric Acid (Urine) UURI CU 4 hours £34.00 Urine Free Light Chains UFLC RU 1 week £318.00 Urine Organic Acids UORG RU (Frozen) 3 weeks £244.00 Urine Steroid Screen (Steroid Hormones) USTE CU or RU³ 2 weeks £684.00 Urine Sugar Chromatography UCRO	Transferrin Electrophoresis	TREL	B	2 weeks	£224.00
Troponin T (High sensitive) TROT ③ 4 hours £87.00 Tryptase STRY ⑤ 2 days £127.00 Tumour Necrosis Factor – Alpha TNF ⑥ (Frozen)⁴ 2 weeks £150.00 Urate (Uric acid) UA ⑥ 4 hours £26.00 Urea UREA ⑥ 4 hours £26.00 Urea (Urine) UURE CU 4 hours £26.00 Urea and Electrolytes U/E ⑥ 4 hours £34.00 Urea Electrolytes (Urine) UELE CU 4 hours £34.00 Uric Acid (Serum) UA ⑥ 4 hours £34.00 Uric Acid (Serum) UA ⑥ 4 hours £34.00 Uric Acid (Urine) UURI CU 4 hours £35.00 Urine Free Light Chains UFLC RU 1 week £318.00 Urine Organic Acids UORG RU (Frozen) 3 weeks £244.00 Urine Steroid Screen (Steroid Hormones) USTE CU or RU³	Triglycerides	TRI	B	4 hours	£26.00
Tryptase STRY ③ (Frozen)⁴ 2 days £127.00 Tumour Necrosis Factor − Alpha TNF ③ (Frozen)⁴ 2 weeks £150.00 Urate (Uric acid) UA ⑥ 4 hours £26.00 Urea UREA ⑥ 4 hours £26.00 Urea (Urine) UURE CU 4 hours £26.00 Urea and Electrolytes U/E ⑥ 4 hours £34.00 Urea Electrolytes (Urine) UELE CU 4 hours £34.00 Uric Acid (Serum) UA ⑥ 4 hours £36.00 Uric Acid (Urine) UURI CU 4 hours £35.00 Urine Free Light Chains UFLC RU 1 week £318.00 Urine Organic Acids UORG RU (Frozen) 3 weeks £244.00 Urine Steroid Screen (Steroid Hormones) USTE CU or RU³ 2 weeks £684.00 Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks £149.00 Very Long Chain Fatty Acids VLCF	Trimethylaminuria (Fish Odour Syndrome)	F0S	PU	6 weeks	£316.00
Tumour Necrosis Factor − Alpha TNF ③ (Frozen)⁴ 2 weeks £150.00 Urate (Uric acid) UA ③ 4 hours £26.00 Urea UREA ⑤ 4 hours £26.00 Urea (Urine) UURE CU 4 hours £26.00 Urea and Electrolytes U/E ⑤ 4 hours £34.00 Urea Electrolytes (Urine) UELE CU 4 hours £34.00 Uric Acid (Serum) UA ⑥ 4 hours £34.00 Uric Acid (Urine) UURI CU 4 hours £35.00 Urine Free Light Chains UFLC RU 1 week £318.00 Urine Organic Acids UFLC RU 1 week £318.00 Urine Organic Acids UORG RU (Frozen) 3 weeks £244.00 Urine Steroid Screen (Steroid Hormones) USTE CU or RU³ 2 weeks £684.00 Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks £149.00 Very Long Chain Fatty Acids VLCF	Troponin T (High sensitive)	TROT	B	4 hours	£87.00
Urate (Uric acid) UA ③ 4 hours £26.00 Urea UREA ③ 4 hours £26.00 Urea (Urine) UURE CU 4 hours £26.00 Urea and Electrolytes U/E ⑤ 4 hours £45.00 Urea Electrolytes (Urine) UELE CU 4 hours £34.00 Uric Acid (Serum) UA ⑥ 4 hours £26.00 Uric Acid (Urine) UURI CU 4 hours £35.00 Urine Free Light Chains UFLC RU 1 week £318.00 Urine Organic Acids UORG RU (Frozen) 3 weeks £244.00 Urine Steroid Screen (Steroid Hormones) USTE CU or RU³ 2 weeks £684.00 Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks £149.00 Urobilinogen (Urine) UURO RU 1 day £22.00 Very Long Chain Fatty Acids VLCF ♠ or ♠ (Frozen)³ 4-6 weeks £259.00 Vitamin B12 (Active) B12 <t< th=""><th>Tryptase</th><th>STRY</th><th>B</th><th>2 days</th><th>£127.00</th></t<>	Tryptase	STRY	B	2 days	£127.00
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Urea (Urine) UURE CU 4 hours £26.00 Urea and Electrolytes U/E 3 4 hours £45.00 Urea Electrolytes (Urine) UELE CU 4 hours £34.00 Uric Acid (Serum) UA 3 4 hours £26.00 Uric Acid (Urine) UURI CU 4 hours £35.00 Urine Free Light Chains UFLC RU 1 week £318.00 Urine Organic Acids UORG RU (Frozen) 3 weeks £244.00 Urine Steroid Screen (Steroid Hormones) USTE CU or RU³ 2 weeks £684.00 Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks £149.00 Urobilinogen (Urine) UURO RU 1 day £22.00 Very Long Chain Fatty Acids VLCF A or (Frozen)³ 4-6 weeks £259.00 Vitamin B12 (Active) B12 3 1 day £56.00 Vitamin B12 (Active)/Red Cell Folate B12F 3 2 days £90.00 Vitamin D (25-OH)	Urate (Uric acid)	UA	B	4 hours	£26.00
Urea and Electrolytes U/E €3 4 hours £45.00 Urea Electrolytes (Urine) UELE CU 4 hours £34.00 Uric Acid (Serum) UA €3 4 hours £26.00 Uric Acid (Urine) UURI CU 4 hours £35.00 Urine Free Light Chains UFLC RU 1 week £318.00 Urine Organic Acids UORG RU (Frozen) 3 weeks £244.00 Urine Steroid Screen (Steroid Hormones) USTE CU or RU³ 2 weeks £684.00 Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks £149.00 Urobilinogen (Urine) UURO RU 1 day £22.00 Very Long Chain Fatty Acids VLCF A or (1 (Frozen)³ 4-6 weeks £259.00 Vitamin B12 (Active) B12 6 1 day £56.00 Vitamin B12 (Active)/Red Cell Folate B12F 6 2 days £90.00 Vitamin B12 (Total) TB12 1 day £46.00 Vitamin D (25-OH) V	Urea	UREA	B	4 hours	£26.00
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Uric Acid (Serum) UA ③ 4 hours £26.00 Uric Acid (Urine) UURI CU 4 hours £35.00 Urine Free Light Chains UFLC RU 1 week £318.00 Urine Organic Acids UORG RU (Frozen) 3 weeks £244.00 Urine Steroid Screen (Steroid Hormones) USTE CU or RU³ 2 weeks £684.00 Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks £149.00 Urobilinogen (Urine) UURO RU 1 day £22.00 Very Long Chain Fatty Acids VLCF ♠ or ♠ (Frozen)³ 4-6 weeks £259.00 Vitamin B12 (Active) B12 ⑤ 1 day £56.00 Vitamin B12 (Active)/Red Cell Folate B12F ♠ ⑥ ② 2 days £90.00 Vitamin B12 (Total) TB12 ⑤ 1 day £46.00 Vitamin D (25-OH) VITD ⑥ 4 hours £67.00 VLDL Cholesterol VLDL ⑥ 1 week £69.00	Urea and Electrolytes	U/E	B	4 hours	£45.00
Uric Acid (Urine) UURI CU 4 hours £35.00 Urine Free Light Chains UFLC RU 1 week £318.00 Urine Organic Acids UORG RU (Frozen) 3 weeks £244.00 Urine Steroid Screen (Steroid Hormones) USTE CU or RU³ 2 weeks £684.00 Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks £149.00 Urobilinogen (Urine) UURO RU 1 day £22.00 Very Long Chain Fatty Acids VLCF A or (Frozen)³ 4-6 weeks £259.00 Vitamin B12 (Active) B12 1 day £56.00 Vitamin B12 (Active)/Red Cell Folate B12F 2 days £90.00 Vitamin B12 (Total) TB12 1 day £46.00 Vitamin D (25-OH) VITD 1 day £67.00 VLDL Cholesterol VLDL 1 week £69.00	Urea Electrolytes (Urine)	UELE	CU	4 hours	£34.00
Urine Free Light Chains UFLC RU 1 week £318.00 Urine Organic Acids UORG RU (Frozen) 3 weeks £244.00 Urine Steroid Screen (Steroid Hormones) USTE CU or RU³ 2 weeks £684.00 Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks £149.00 Urobilinogen (Urine) UURO RU 1 day £22.00 Very Long Chain Fatty Acids VLCF ♠ or ♠ (Frozen)³ 4-6 weeks £259.00 Vitamin B12 (Active) B12 ♣ 1 day £56.00 Vitamin B12 (Active)/Red Cell Folate B12F ♠ ♠ ♠ 2 days £90.00 Vitamin B12 (Total) TB12 ♣ 1 day £46.00 Vitamin D (25-OH) VITD ♣ 4 hours £67.00 VLDL Cholesterol VLDL ♣ 13 1 week £69.00	Uric Acid (Serum)	UA	В	4 hours	£26.00
Urine Organic Acids UORG RU (Frozen) 3 weeks £244.00 Urine Steroid Screen (Steroid Hormones) USTE CU or RU³ 2 weeks £684.00 Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks £149.00 Urobilinogen (Urine) UURO RU 1 day £22.00 Very Long Chain Fatty Acids VLCF ♠ or ♣ (Frozen)³ 4-6 weeks £259.00 Vitamin B12 (Active) B12 ♣ 1 day £56.00 Vitamin B12 (Active)/Red Cell Folate B12F ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠	Uric Acid (Urine)	UURI	CU	4 hours	£35.00
Urine Steroid Screen (Steroid Hormones) USTE CU or RU ⁹ 2 weeks £684.00 Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks £149.00 Urobilinogen (Urine) UURO RU 1 day £22.00 Very Long Chain Fatty Acids VLCF ♠ or ♠ (Frozen) ⁹ 4-6 weeks £259.00 Vitamin B12 (Active) B12 □ 1 day £56.00 Vitamin B12 (Active)/Red Cell Folate B12F ♠ □ 2 days £90.00 Vitamin B12 (Total) TB12 □ 1 day £46.00 Vitamin D (25-OH) VITD □ 4 hours £67.00 VLDL Cholesterol VLDL □ 1 week £69.00	Urine Free Light Chains	UFLC	RU	1 week	£318.00
Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks £149.00 Urobilinogen (Urine) UURO RU 1 day £22.00 Very Long Chain Fatty Acids VLCF ♠ or ♠ (Frozen)³ 4-6 weeks £259.00 Vitamin B12 (Active) B12 ♠ 1 day £56.00 Vitamin B12 (Active)/Red Cell Folate B12F ♠ ② 2 days £90.00 Vitamin B12 (Total) TB12 ♠ 1 day £46.00 Vitamin D (25-OH) VITD ♠ 4 hours £67.00 VLDL Cholesterol VLDL ♠ 1³ 1 week £69.00	Urine Organic Acids	UORG	RU (Frozen)	3 weeks	£244.00
Urobilinogen (Urine) UURO RU 1 day £22.00 Very Long Chain Fatty Acids VLCF ♠ or ♣ (Frozen) ⁹ 4-6 weeks £259.00 Vitamin B12 (Active) B12 ♠ ⊕ 1 day £56.00 Vitamin B12 (Active)/Red Cell Folate B12F ♠ ⊕ 2 days £90.00 Vitamin B12 (Total) TB12 ⊕ 1 day £46.00 Vitamin D (25-OH) VITD ⊕ 4 hours £67.00 VLDL Cholesterol VLDL ⊕ 1 week £69.00	Urine Steroid Screen (Steroid Hormones)	USTE	CU or RU ⁹	2 weeks	£684.00
Very Long Chain Fatty Acids VLCF ♠ or ♠ (Frozen)9 4-6 weeks £259.00 Vitamin B12 (Active) B12 ⋮ 1 day £56.00 Vitamin B12 (Active)/Red Cell Folate B12F ♠ ⋮ 2 days £90.00 Vitamin B12 (Total) TB12 ⋮ 1 day £46.00 Vitamin D (25-OH) VITD ⋮ 4 hours £67.00 VLDL Cholesterol VLDL ⋮ 1 week £69.00	Urine Sugar Chromatography	UCR0	RU (Frozen)	3 weeks	£149.00
Vitamin B12 (Active) B12 □ 1 day £56.00 Vitamin B12 (Active)/Red Cell Folate B12F □ 2 days £90.00 Vitamin B12 (Total) TB12 □ 1 day £46.00 Vitamin D (25-OH) VITD □ 4 hours £67.00 VLDL Cholesterol VLDL □ 1 week £69.00	Urobilinogen (Urine)	UUR0		1 day	£22.00
Vitamin B12 (Active)/Red Cell Folate B12F A © 2 days £90.00 Vitamin B12 (Total) TB12 I day £46.00 Vitamin D (25-OH) VITD I day £67.00 VLDL Cholesterol VLDL I week £69.00	Very Long Chain Fatty Acids	VLCF		4-6 weeks	£259.00
Vitamin B12 (Total) TB12 3 1 day £46.00 Vitamin D (25-0H) VITD 3 4 hours £67.00 VLDL Cholesterol VLDL 3 1 week £69.00	Vitamin B12 (Active)	B12		1 day	£56.00
Vitamin D (25-0H) VITD 3 4 hours £67.00 VLDL Cholesterol VLDL 3 1 week £69.00	Vitamin B12 (Active)/Red Cell Folate	B12F	A B	2 days	£90.00
VLDL Cholesterol VLDL 13 1 week £69.00	Vitamin B12 (Total)	TB12		1 day	£46.00
	Vitamin D (25-OH)	VITD	B	4 hours	£67.00
VMA UVMA PU ¹ 5 days £63.00	VLDL Cholesterol	VLDL	B 13	1 week	£69.00
	VMA	UVMA	PU ¹	5 days	£63.00

Biochemistry

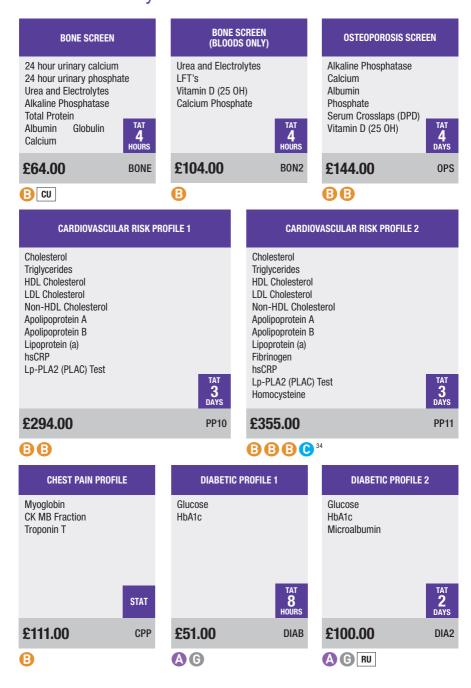




Troponin T (high sensitive)

This assay can be used to aid in the differential diagnosis of acute coronary syndrome to identify necrosis, e.g. acute myocardial infarction. As a result of its high tissue-specificity, cardiac troponin T is a cardio-specific, highly sensitive marker for myocardial damage. Cardiac Troponin T (hs) increases approximately 3-4 hours after myocardial infarction and may persist for up to 2 weeks.

Biochemistry



All citrate samples () sent by post or with an overnight delay must be double spun and sent frozen.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Anaemia Profile	ANAE	AAB	2 days	£141.00
Antenatal Profile	ANTE	A A ³³ B B B G	3 days	£437.00
APTT/KCCT	KCCT	C 18	4 hours	£34.00
Atypical Antibody Screen (handwritten tube label)	AASC	A 22,33	2 days	£47.00
Blood Film Examination	FILM	A	1 day	£28.00
Blood Group [†]	AB0	A 22,33	2 days	£51.00
Carboxyhaemoglobin	CBHB	A	1 week	£67.00
Coagulation Profile 1	CLPF	C 18	4 hours	£67.00
Coagulation Profile 2	CLOT	A C 18	4 hours	£88.00
D-Dimers (Fibrinogen Degradation Products)	DDIT	C 4	4 hours	£58.00
DVT/Pre-travel Screen (see profile)	DVT1	A A B ⁹	5 days	£232.00
ESR	ESR	A	4 hours	£26.00
Fibrinogen	FIB	C 4,18	4 hours	£35.00
Full Blood Count	FBC	A	4 hours	£39.00
Haematology Profile	PP3	A	4 hours	£46.00
Haemoglobin	HB	A	4 hours	£26.00
Immune Function Evaluation (Total)	TIE	A or Chex+ (3) 5,10	7 days	£300.00
INR	PTIM	C 18	4 hours	£24.00
Lymphocyte Subsets (CD3/CD4/CD8)	LYSS	A 10/Chex	1 day	£208.00
Malarial Parasites	MALP	A 4,9,14	STAT	£50.00
Mean Cell Volume (MCV)	MCV	A	4 hours	£28.00
Microfilaria Blood Film	MICF	A	STAT	£30.00
Natural Killer Profile 2	NKP2	A	2 days	£229.00
PAI1 4G/5G Polymorphism	PAIP	A	10 days	£192.00
Paul Bunnell (Monospot)	PAUL	(A) or (B)	8 hours	£29.00
Pre-Travel Screen (DVT)	DVT1	A A B ⁹	5 days	£232.00
Prothrombin Time	PTIM	C 18	4 hours	£24.00
Prothrombin Time + Dose	PT+D	C 18	4 hours	£48.00
Reticulocyte Count	RETC	A	4 hours	£26.00
Thrombin Time	THR0	C 18	4 hours	£27.00
Vitamin K (With PIVKA II)	VITK	B 13	10 days	£314.00

[†] The tube's own label must be completed by hand. This must correspond with same name and date of birth details as given on the request form. Do not affix additional computerised or hand written labels.

SPECIAL HAEMOSTASIS				
TEST	CODE	SAMPLE REQS	TAT	PRICE
Activated Protein C Resistance	APCR	(Frozen) 4,18	3 days	£87.00
ADAMTS – 13 Activity Assay	CP13	(Frozen) 4,18	3 days	£106.00
Antithrombin III	A111	© (Frozen) 4,9,18	3 days	£66.00
Factor II Assay	FAC2	(Frozen) 9,18	5 days	£66.00
Factor II Prothrombin Gene	FX2	A 9	5 days	£175.00
Factor V Assay	FAC5	(Frozen) 9,18	5 days	£66.00
Factor V Leiden	FX5	A 9	5 days	£175.00
Factor VII Assay	FAC7	(Frozen) 9,18	5 days	£103.00
Factor VIII Assay	FAC8	(Frozen) 9,18	5 days	£103.00
Factor VIII Inhibiting Antibody	F8IA	C C 18	2 weeks	£103.00
Factor IX Assay	F1X	(Frozen) 9,18	5 days	£103.00
Factor IX Inhibiting Antibody	F9IA	C C 18	2 weeks	£103.00
Factor X Assay	FX	(Frozen) 9,18	5 days	£133.00
Factor Xa (Heparin)	FXA	(Frozen)	5 days	£94.00
Factor XI Assay	FX1	(Frozen) 9,18	5 days	£103.00
Factor XII Assay	FX11	(Frozen) 9,18	5 days	£103.00
Factor XIII Assay	FA13	(Frozen) 9,18	5 days	£259.00
Hughes Syndrome	LUPA	B C 4,18	2 days	£94.00
Lupus Anticoagulant and Anticardiolipin Abs	LUPA	B C 4,18	2 days	£94.00
Lupus Anticoagulant only	LUPC	C 18	2 days	£61.00
Miscarriage/Thrombotic Risk Profile	PROP	A B C C C 1 8	5 days	£690.00
Plasma Viscosity	VISC	A 4	3 days	£48.00
Platelet Aggregation Studies	PLAG	J ^{5,6}	3 days	£272.00
Protein C	PRC	(Frozen) 4,9,18	3 days	£56.00
Protein S Free Ag	FPRS	(Frozen) 4,9,18	3 days	£56.00
Taipan Snake Venom Time	TTVT	C 18	1 week	£204.00
Thrombotic Risk Profile	PROP	A B C C C 1 8	5 days	£690.00
Viscosity (Plasma)	VISC	A 4	3 days	£48.00
Von Willebrand Profile	FVWF	() () () 4,12	5 days	£186.00
Von Willebrands Multimers	VWM	C C C 18	3 months	£515.00

SPECIAL HAEMATOLOGY				
TEST	CODE	SAMPLE REQS	TAT	PRICE
Coombs (Direct Antiglobulin Test)	COOM	A	2 days	£27.00
Erythropoietin	ERY	B	4 days	£74.00
G6PD	G6PD	A	3 days	£81.00
Haemoglobin Electrophoresis	HBEL	A	4 days	£85.00
HFE gene (Haemochromatosis) - common mutations C282Y + H63D	HMD	A 9	3 days	£190.00
Sickle Solubility	SICK	A	4 days	£85.00
Thalassaemia Screen	HBEL	A	4 days	£85.00

FLOW CYTOMETRY				
TEST	CODE	SAMPLE REQS	TAT	PRICE
Bone Marrow (Aspirate)	BMAS	J ¹	14 days	£431.00
Bone Marrow (Trephine Biopsy)	BMI	J ¹	3 days	£522.00
CD3/CD4/CD8	LYSS	A 10/Chex	1 day	£208.00
CD19 B Cells	CD19	A 4	1 day	£100.00
CD16	CD16	A 4	1 day	£100.00
CD20	CD20	A 10/Chex	2 days	£109.00
CD25	CD25	⚠ ¹0/Chex	2 days	£73.00
CD56	CD56	A 4	1 day	£70.00
CD57	CD57	A	1 day	£97.00
Hams Test for PNH (CD59)	HAMS	J ^{34,5}	5 days	£346.00
Leukaemia Immunophenotyping	LYPT	A 4,5	5 days	£471.00

HAEMATOLOGY PROFILE **COAGULATION PROFILE 1 COAGULATION PROFILE 2** FBC + 5 part Diff Prothrombin Time FBC + 5 part Diff **FSR APTT** Prothrombin Time Fibrinogen **APTT** Fibrinogen 4 HOURS 4 HOURS 4 £46.00 £67.00 £88.00 PP3 **CLPF** CLOT C 18 **A** (C) 18 A **ANAEMIA PROFILE** PRE-TRAVEL SCREEN (DVT) **VON WILLEBRAND PROFILE** FBC + 5 part Diff FBC Von Willebrand Factor Factor II Prothrombin Gene **ESR** Von Willebrand Activity Factor V Leiden (Ristocetin Cofactor) Iron, TIBC Ferritin Anticardiolipin Factor VIII Assav **Antibodies** B12 (Active) 2 DAYS 5 DAYS 5 DAYS Folate (RBC) £141.00 £232.00 £186.00 ANAF DVT1 **FVWF** AAB **A A B** ⁹ **(C) (C)** 4,12 THROMBOTIC RISK PROFILE **NATURAL KILLER PROFILE 2 ANTENATAL PROFILE** FBC CD3 FBC + 5 part Diff CD4 Coagulation Profile Blood Group and Rh Type Atypical Antibody Screen Antithrombin III CD8 Factor V Leiden gene Haemoglobin electrophoresis CD16/CD56 Factor II Prothrombin gene Syphilis IaG/IaM CD19 MTHFR gene Glucose Lupus Anticoagulant FT4/TSH Protein C Rubella Antibodies (IgG) Free Protein S Ag Toxoplasma (IgG/IgM) £229.00 NKP2 Anticardiolipin Abs Hepatitis B sAq Hep C Abs A Varicella Zoster IgG (Immunity) HIV 1 & 2 Abs 3 DAYS Please ensure the blood group (EDTA) tube label is **HANDWRITTEN.** Do not affix 5 a secondary label. £690.00 PR_OP £437.00 ANTE

A A ³³ **B B B G**

AABCC¹⁸

	TEST	CODE	SAMPLE REQS	TAT	PRICE
	16S rRNA Bacterial Gene	16S	J	1 week	£225.00
	18S rRNA Fungal Gene	18S	J	1 week	£225.00
	Beta D Glucan	XBDG	В	2 weeks	£105.00
	Blood Culture	BCUL	2x BC ⁴	6 days +	£66.00
	Carbapenemase producing organism screen	MDR	STM (rectal)	4-5 days‡	£94.00
	Chlamydia trachomatis by PCR (Swab)	SPCR	PCR	2 days	£64.00
	Chlamydia trachomatis by PCR (Thin Prep)	TPCR	TPV	2 days	£75.00
	Chlamydia trachomatis by PCR (Urine)	CPCR	FCRU	2 days	£64.00
	Clostridium Difficile Toxin by PCR	CLOS	RF*	2 days	£87.00
	Cryptococcal Antigen	CRYC	Serum or CSF	1 day	£76.00
	Cryptosporidium	CRP0	RF	2 days	£41.00
	CSF for Microscopy and Culture	CSF	CSF	1-3 days	£67.00
	Culture (Any site)	CULT		up to 5 days	£50.00
NEW	Faecal Occult Blood/F0B (immunochemical/FIT)	QFIT	QFIT	1 day	£48.00
	Fluid Culture	FLUD	SC	2-7 days	£50.00
	Fluid for Crystals	FLU2	SC	1 day	£50.00
	Fungal ID + Sens	FUID	Fungal sample/STM	14 days	£110.00
	Galactomanan (Aspergillus Antigen)	SGAL	В	2 weeks	£232.00
	Gonorrhoea by Culture	GONN	CS***	2-3 days	£50.00
	Group B Strep (see page 43)	GBS	2x STM	3-4 days	£38.00
	H. pylori Culture	HPCU	J	3 weeks	£178.00
	HVS	HVS	STM ^{‡‡‡‡}	2-4 days	£57.00
	IUCD for Culture	IUCD	Send Device	11-12 days	£58.00
	Legionella Urine Antigen	LEGA	RU	1 day	£112.00
	MRSA (Rapid PCR) one swab per site	MRSA	Blue Micro Swab	4 hours	£64.00
	MRSA Culture one swab per site	MRSW	Blue Micro Swab	2 days	£50.00
	Mycology/Skin Scrapings by PCR	DERM	Submit Sample	3-7 days	£45.00
	Mycoplasma/Ureaplasma Culture****				
	Nail Clippings	DERM	Nail clippings	3-7 days	£45.00
	Pleural Fluid for Culture	FLUP	SC	7 days	£50.00
	Pneumococcal Antigen	PNAG	RU	1 day	£82.00

Not performed on formed stool specimens.

^{**} Do not use a black swab for RAPS. Use Blue only. Rapid antigen is reported within 4 hours with full culture to follow.

^{***} Use clear Sellotape only and attach to slide.

^{****} Culture techniques have been discontinued, please send PCR (see Sexual Health section for full details).

[‡] Presumptive positive isolates will be sent to the PHE reference laboratory for confirmation.

^{**} BAL: Induced sputum or bronchoalveolar larage.

^{***} The optimal sample type from the female genital tract is an endocervical swab. Gonorrhoea does not survive well outside the endocervical epithelium; a negative gonorrhoea culture result from a vaginal swab is not reliable for excluding infection.

^{*****} Culture for Mycoplasma, Ureaplasma and Trichomonas vaginalis has been discontinued due to the superiority of molecular methods. If investigations for Mycoplasma genitalium, Ureaplasma or Trichomonas vaginalis are required please request PCR testing (see Sexual Health section).

TEST	CODE	SAMPLE REQS	TAT	PRICE
Pneumocystis Jiroveci (PCP) Examination	PCYS	BAL ^{‡‡}	2-3 days	£80.00
Rapid Strep (incl. m/c/s)	RAPS	STM**	1-3 days**	£67.00
Schistosoma (Urine)	USCH	Mid-morning terminal urine	8 hours	£53.00
Sellotape Test	SELL	Send Sample***	1 day	£50.00
Semen Analysis	SPER	Semen	2-4 days	£42.00
Semen Culture	SPCU	Semen	2-4 days	£42.00
Skin Scrapings/Mycology by PCR	DERM	Send Sample	3-7 days	£45.00
Specific Gravity (Urine)	USG	RU	24 hours	£15.00
Sputum for Routine Culture	SPU1	SC	2-4 days	£50.00
Sputum for TB Culture (AFB)	SPU2	SC	up to 8 weeks	£53.00
Stool for OCP and Culture ^{††}	PENT	RF	2-3 days	£52.00
Stool for OVA Cysts & Parasites by PCR	0CP	RF	1 day	£31.00
Stool Reducing Substances	STRS	RF ⁷	5 days	£44.00
Swab for Culture	SWAB [†]	STM	2-4 days	£50.00
Swab (Ear)	EARS	STM	2-4 days (Culture) 8-9 days (Fungal) – same swab	£50.00
Synovial Fluid (for microscopy and culture)†††	FLU2	A+SC	14 days	£50.00
TB (pleuralfluid)	TBCU	SC	up to 8 weeks	£53.00
TB Culture	SPU2	SC	up to 8 weeks	£53.00
TB Culture (Urine)	TBUR	3x EMU	up to 8 weeks	£80.00
TB Slopes – Confirmation and Sensitivity	TBSL	TB slope (LJ medium-green) ⁶	up to 8 weeks	£158.00
Tissue for culture	TISS	Tissue sample	up to 14 days	£50.00
Ureaplasma/Mycoplasma Culture****				
Urine (Microscopy Only)	UMIC	RU	1 day	£41.00
Urine for Microscopy and Culture****	UCEM	MSU	1-2 days	£52.00

[†] Please state site of swab collection on **both** request form and swab label.

Please provide relevant travel history. If travel history is not provided, stool will be investigated for endemic pathogens only [Campylobacter, Salmonella, Shigatoxin-producing E coli (VTEC), Cryptosporidium and Giardia].

^{†††} If prosthetic joint is present please state in clinical details to ensure that enrichment culture is prolonged for 14 days.

^{******} Optimal sample type for urine culture is a mid-stream clean catch urine sent in a sterile pot containing boric acid preservative.

URINE CULTURE PROCESSING AND RESULTS

All urine culture testing is performed using manual methods. The culture pathway adheres to national guidance and is a fully UKAS-accredited method.

Manual testing allows a larger amount of urine to be tested than previous automated method, which enables the laboratory to detect lower bacterial counts (as low as 103cfu/mL) and also facilitates the follow up of significant organisms grown from mixed cultures.

If the culture result is indicative of urinary tract infection, antibiotic susceptibilities will be tested from the culture growth and will be available 24 hours after the culture result. 'Direct sensitivities' are no longer performed. Direct susceptibility testing is not inoculum-controlled, produces inaccurate results and is not UKAS-accredited.

Culture results should be interpreted alongside the microscopy WBC count and clinical signs and symptoms. Significant growth on culture in the absence of pyuria may be suggestive of contamination with regional flora rather than true infection. It should be noted, however, that WBC degrade in urine quite rapidly and delays between sample collection and microscopy may lead to falsely low WBC readings which may account for these findings.

What does the result 'No significant growth' mean?

The amount of growth falls below the threshold for urinary tract infection (< 103 cfu/mL).

There is no laboratory evidence of urinary tract infection.

Occasionally, this may be seen in very early stages of infection or in a partially treated urinary tract infection. Therefore, please send a repeat specimen if symptoms persist.

What does the result 'mixed growth doubtful significance' mean?

This means that the culture revealed a heavy growth of at least 3 organisms with no predominating organism; this represents contamination of the urine with the patient's flora during collection.

This result does not exclude urinary tract infection but it is not possible to determine the causative organism among the mixture of organisms.

If symptoms persist, please send a repeat urine specimen and ensure that patient understands optimal collection technique.

If you are receiving a lot of 'mixed growth of doubtful significance' results, please consider the following:

• The instructions that patients are given to collect their urine sample

Poor collection technique is the most common reason for a heavily mixed growth in a urine sample. It is almost impossible to collect a urine sample without any contamination from the normal bacterial flora which inhabits the area surrounding the urethral opening, but optimal collection technique will minimise this contamination and allow the true infective cause to stand out and be identified (a patient instruction leaflet is available).

Delays between sample collection and laboratory processing

The time between sample collection and laboratory processing can allow small amounts of contaminating bacterial flora to multiply up to higher amounts prior to laboratory testing, which can result in heavy mixed growth of bacteria on culture. Using a red topped specimen pot containing boric acid preservative will minimise this.

RED TOPPED BORIC ACID CONTAINERS

The preservative reduces the overgrowth of organisms and, to a lesser extent, reduces the degradation of white cells during transit leading to a more accurate laboratory result for both microscopy and culture. UKAS recommends the use of boric acid containers for all urine sample for microscopy and culture (Urine M,C&S) to improve the quality of microbiological results.

Red topped boric acid containers are for requests for urine microscopy and culture (MC&S) ONLY. Boric acid container should NOT be used for:

- Other urine microbiology tests (e.g. investigations for Chlamydia, Mycobacterium, Schistosomiasis, urinary antigen testing)
- · Urine samples being analysed by PCR methodology
- Urine samples for non-microbiology tests (e.g. biochemistry, virology, pregnancy testing)
- · Very small urine volumes (<20ml) e.g. neonates

Use of urinary dipsticks: boric acid may inhibit leukocyte esterase dipstick readings; dipstick testing performed on a sample in a boric acid container should be interpreted with caution.

If additional tests are required in addition to urine microscopy and culture, **an additional sample in a white-topped universal container should be sent**. In this case, it is advised that the mid-stream clean catch urine is collected in a sterile bowl and then transferred to the necessary specimen containers.

If, despite these measures, a patient has recurrent mixed growth reports from multiple urines, it may suggest that your patient has abnormal urinary tract architecture, immunosuppression or other non-infective cause that requires different laboratory investigations or referral to a specialist. If further information is required, please telephone the laboratory and ask to discuss the case with one of our consultant Microbiologists.

Swabs: Types and Codes

Patient Request Forms AND Swabs should be labelled with the body site from which the sample was taken. This is important. The swab site determines the appropriate culture media required to target the most likely pathogens.

SITE	CODE	SAMPLE TYPE	
Culture Swabs			
Cervical Swab	CERS	Blue Micro Swab	
Eye Swab	EYES	Blue or Orange Micro Swab	
Ear Swab	EARS	Blue or Orange Micro Swab	Blue Micro/Transwab
Gonorrhoea	GONN	Black Charcoal Swab	are multipurpose, culture
High Vaginal Swab	HVS	Blue Micro Swab	swabs in transport medium
Nasal Swab	NASS	Blue or Orange Micro Swab	Orange Micro/Transwab
Oral Swab	ORSW	Blue Micro Swab	are small, thin wire culture
Penile Swab	PENS	Orange Micro Swab	swabs in transport medium
Rectal Swab	RECG	Blue Micro Swab	PCR swahs are also
Skin Swab	SKIS	Blue Micro Swab	known as DRY SWABS
Throat Swab	THRS	Blue Micro Swab	Female/Purple DRY
Urethral Swab	URES	Orange Micro Swab	PCR swab
Vaginal Swab	VAGS	Blue Micro Swab	Male/Blue DRY PCR swab
Vulval Swab	VULV	Blue Micro Swab	Maic/Diuc Ditt i oit swab
Wound Swab	WOUS	Blue Micro Swab	
MRSA by Culture	MRSW	Blue Micro Swab x 1 – state site	
	MRW2	Blue Micro Swab x 2 – state sites	
	MRW3	Blue Micro Swab x 3 – state sites	
	MRW4	Blue Micro Swab x 4 – state sites	
	MRW5	Blue Micro Swab x 5 – state sites	
RAPID MRSA by PCR	MRSA	Blue Micro Swab x 1 – state site	
Note: This PCR	MRS2	Blue Micro Swab x 2 – state sites	
methodology uses	MRS3	Blue Micro Swab x 3 – state sites	
culture swabs	MRS4	Blue Micro Swab x 4 – state sites	
	MRS5	Blue Micro Swab x 5 – state sites	

PCR METHODS FOR THE DETECTION OF DERMATOPHYTE FUNGAL CULTURES

The detection of Dermatophyte fungal cultures uses High Sensitivity PCR testing. This reduces the overall turnaround time by up to three weeks, and increases the detection of fungal infection compared to combined microscopy and culture. Furthermore the specific targeting pathogens associated with superficial fungal infection is increased which assists in preventing the over reporting of insignificant fungi that are contaminants.

FUNGAL TEST CODES

	Investigation of Superficial Fungal Infection	Investigation of Non-Superficial Fungal Infection
Test Code	DERM*	FUN*
Sample type	Nail, Hair, Skin.	All specimens other than Skin, Hair and Nail.
Turnaround time	72 hours for interim PCR report, and 7 days for final culture (unless the fungal culture needs to be extended for significant growth).	7 days (non-sterile e.g. ear swab) and 3 weeks (sterile i.e. CSF).
Notes	 Dermatophyte PCR is replacing microscopy for Nails, Hair and Skin (72 hour TAT). Non-dermatophyte culture will take 7 days rather than 3 weeks. Microscopy will be used to confirm significance of rare fungi that may cause infections. There is no change in the price of this test. 	 Non-sterile specimen fungal cultures are performed on Sabouraud's agar plates for 7 days with no microscopy. Sterile specimen fungal cultures have microscopy (Calcafluor) reported on the day of processing and culture on a Sabouraud's agar slope, incubated for 21 days.

STOOL TEST CODES

Traditional culture methods have been replaced by Real Time PCR for enteric pathogen testing. The benefits are increased sensitivity and a higher detection rate. Once received and processed in the microbiology lab, negative results will be available within 24 hours. Positive results will be followed up with culture and sensitivities for final reporting.

STOOL OCP AND CULTURE				
Sample Type	Please request as PENT	Comments		
Stool	Serosep EntericBio PCR Bacteria/Bacterial Toxins • Salmonella • Campylobacter • Shigella • VTEC Parasites • Cryptosporidium • Giardia	All stool samples will be tested for UK Pathogens. Overseas pathogens will only be tested if specifically requested and travel history and clinical details are provided. Samples that are positive for the bacterial pathogens will be cultured to provide sensitivities and, if indicated, for PHE referral. Samples will be kept for 7 days after receipt to allow for additional testing if required.		

STOOL FO	STOOL FOR OCP				
Sample Type	Please request as OCP	Comments			
Stool	Requests for OCP only will include testing for cryptosporidium and giardia by PCR	Overseas pathogens will only be tested if requested and travel history and clinical details are provided.			

C. DIFFIC	C. DIFFICILE DETECTION				
Sample Type	Please request as CLOS	Comments			
Stool	Serosep Enteric Bio PCR	Change to PCR and Elisa methods.			
	Alere Techlab EIA (Toxin)	Two tier PCR & Toxin c. diff screening based on PHE guidance. Improved sensitivity and specificity for both targets tested.			
		Primary c. diff gene screening using Enteric Bio PCR.			
		Secondary sequential testing using Alere EIA to confirm Toxin.			

GASTRO VIRUS DETECTION (INCLUDING ROTAVIRUS) SEE VIROLOGY

ENTERIC ORGANISM RAPID DETECTION SEE VIROLOGY

GROUP B STREPTOCOCCUS (GBS)

Group B Streptococcus (GBS or group B Strep) is the most common cause of severe infection in newborn babies, and of meningitis in babies under age 3 months. On average in the UK:

- · 2 babies a day develop group B Strep infection
- 1 baby a week dies from group B Strep infection
- 1 baby a week survives group B Strep infection with long term disability

Most GBS infection is of early onset, presenting in babies within the first 6 days of life, and usually within the first 12 hours after birth. Between age 7 days and 3 months, these infections are rare, and in babies over 3 months they are very rare indeed.

Most early-onset GBS infections (in babies aged 0-6 days) can be prevented by giving intravenous antibiotics in labour to women whose babies are at raised risk of developing GBS infection. In the UK, women are offered IV antibiotics in labour based on specific risk factors.

GBS is normal flora of the distal GI tract. Up to 30% of women carry it harmlessly in their vaginal tract. Vaginal carriage at the time of vaginal delivery can result in transmission of GBS to baby. Babies are more vulnerable to infection as their immature immune systems cannot fight off the multiplying bacteria. If untreated, GBS can cause serious infections, such as meningitis and septicaemia, which may lead to stillbirths, and newborn and infant deaths. If they survive, babies can develop permanent problems including hearing or vision loss, or cerebral palsy.

Current GBS prevention focuses on giving intravenous antibiotics to women in labour, aiming to reduce disease in infants at delivery. 2 x Blue culture swabs (lower vaginal and lower rectal) should ideally be taken from 35 weeks. Swabs will be placed in enrichment culture in the microbiology laboratory to ensure maximal detection.

TEST	CODE	SAMPLE REQS	TAT	PRICE
11 Deoxycorticosterone	DEOX	В	10 days	£103.00
11 Deoxycortisol	11DC	(Frozen)	10 days	£158.00
17 Hydroxyprogesterone	170H	В	5 days	£97.00
ACTH (Adreno Corticotrophic Hormone)	ACTH	(Plasma Frozen) ⁴¹	1 day	£113.00
Aldosterone	ALDN	В	5 days	£111.00
Aldosterone (Urine)	UALD	PU	5 days	£113.00
Alpha Feto Protein	AFP	В	4 hours	£48.00
Amenorrhoea Profile	AMEN	В	4 hours	£121.00
Andropause Profile	ANDP	ВВ	8 hours	£150.00
Androstenedione	ANDR	(Frozen)	1 day	£76.00
Antidiuretic Hormone	ADH	(Plasma Frozen) ⁴	10 days	£132.00
Antimullerian Hormone (AMH Plus)	AMH	В	4 hours	£105.00
Beta HCG (Quantitative)	QHCG	В	4 hours	£49.00
BNP (NT-pro BNP)	BNP	В	4 hours	£76.00
C Peptide	CPEP	В	3 days	£108.00
Calcitonin	CAT0	(Frozen) ⁴	1 day	£112.00
Catecholamines (Plasma)	CATE	(Plasma Frozen) ⁴	5 days	£100.00
Catecholamines (Urine)	UCAT	PU ¹	5 days	£127.00
Cortisol	CORT	В	4 hours	£46.00
Cortisol (Urine)	UCOR	CU	5 days	£63.00
DHEA	DHEX	В	7-10 days	£115.00
DHEA – Urine (Dehydroepiandrosterone)	UDHE	CU	3 weeks	£83.00
DHEA Sulphate	DHEA	B	4 hours	£67.00
Dihydrotestosterone	DHT	BB	7 days	£109.00
Down Syndrome Risk Bloods only (Risk to be calculated by clinician)	HCGF/PAPA	В	4 hours	£73.00
Down Syndrome Risk Profile (2nd trimester) Quad	DRP	B, DRP form ^{7,8}	2 days	£180.00
Down Syndrome Risk Profile with risk calculation first trimester	DRP	B, DRP form + image of scan ^{7,8}	2 days	£180.00
Erectile Dysfunction Profile	IMP0	ABBG	3 days	£198.00
Female Hormone Profile	FIP	B	4 hours	£121.00
First Trimester Antenatal Screen	HCGF/PAPA	В	4 hours	£73.00
Free Cortisol (Urine)	UCOR	CU	5 days	£63.00
Free T3	FT3	В	4 hours	£44.00
Free T4	FT4	В	4 hours	£44.00
FSH	FSH	В	4 hours	£44.00
Growth Hormone (Fasting)	GH	B 7,35	4 hours	£50.00
Gut Hormone Profile	GUTP	A A (Frozen within 15 minutes) ⁴¹	3 weeks	£298.00
Hirsutism Profile	HIRP	В	4 hours	£150.00
HRT Profile 1	HRT	В	4 hours	£91.00
HRT Profile 2	HRT2	B G	4 hours	£139.00
IGF-1 (Somatomedin)	SOMA	(Frozen) ⁴	1 day	£79.00

TEST	CODE	SAMPLE REQS	TAT	PRICE
IGF-BP3	IGF3	□ (Frozen) ⁴	5 days	£97.00
Impotence Profile	IMP0	ABBG	3 days	£198.00
Inhibin A	INIA	B	1 month	£136.00
Inhibin B	INIB	(Day 3 of cycle,frozen)	5 days	£121.00
Insulin	INSU	B	4 hours	£48.00
Insulin Resistance (Fasting)	FIRI	BG	4 hours	£69.00
Luteinising Hormone (LH)	LH	В	4 hours	£44.00
Macroprolactin	PRLD	В	4 days	£211.00
Male Hormone Profile	MIPR	В	4 hours	£149.00
Melanin	MELA	RU 13	5 days	£61.00
Melatonin (Serum)	MEL	(Frozen)	5 days	£82.00
Melatonin (Urine)	UMEL	CU ¹³	2 weeks	£117.00
Menopause Profile	MENO	B	4 hours	£121.00
Metabolic Syndrome Profile	METS	ABB G	9 days	£243.00
Metanephrines (Plasma)	PMET	(Frozen plasma)	7 days	£146.00
Metanephrines (Urine)	UMEX	PU ¹	5 days	£121.00
Oestradiol (E2)	0EST	B	4 hours	£44.00
Oestriol (Estriol)	E3	ВВ	4 days	£86.00
Oestrone	E1	ВВ	4 days	£86.00
Osteocalcin	0ST	(Frozen) ⁴	4 days	£175.00
Parathyroid Hormone (Whole)	PTHI	B 4	1 day	£101.00
Pituitary Function Profile	PITF	88	1 day	£165.00
Polycystic Ovary Syndrome Profile	PCOP	ABBB © ⁷	5 days	£470.00
Polycystic Ovary Syndrome SHORT	PCOS	B G	4 hours	£149.00
Pregnancy (Serum) [Quantitative]	QHCG	В	4 hours	£49.00
Pregnanetriol (Urine)	UPTR	CU (Frozen)	5 days	£114.00
Pregnenolone	PREN	B	15 days	£100.00
Progesterone	PROG	B	4 hours	£44.00
Proinsulin	PROI	(Frozen plasma) ⁴	5 days	£202.00
Prolactin	PROL	B	4 hours	£44.00
Prolactin (Macro)	PRLD	B	4 days	£211.00
Renin	RENI	(Frozen plasma) 36	5 days	£108.00
Reverse T3	RT3	B 7,37	10 days	£110.00
Serotonin	SERT	(Frozen whole blood) ¹	10 days	£109.00
Serotonin (Urine)	USER	PU 50mls (Frozen) ¹	5 days	£130.00
Sex Hormone Binding Globulin	SHBG	B	4 hours	£52.00
Somatomedin (IGF-1)	SOMA	(Frozen) ⁴	1 day	£79.00
Suppression with steroid, IVIg and intralipin, NK (CD69) cell assay, TH1/TH2 cytokines	NCIT	000	Send Mon- Thurs only	£861.00
Т3	T3	В	4 hours	£44.00
T3 (Reverse)	RT3	B 7,37	10 days	£110.00
Testosterone (Bioavailable)	BTES	В	5 days	£194.00
Testosterone (Free)	FTES	B	3 days	£91.00
	· ·		· ·	_

TEST	CODE	SAMPLE REQS	TAT	PRICE
Testosterone	TEST	В	4 hours	£44.00
Thyroglobulin Abs	TGAB	В	1 day	£45.00
Thyroglobulin Assay	TGA	В	1 day	£78.00
Thyroid Abs (incl. TGAB + TPEX)	THAB	В	1 day	£74.00
Thyroid Peroxidase Antibodies/Anti TPO	TPEX	В	1 day	£45.00
Thyroid Profile 1	TF	В	4 hours	£62.00
Thyroid Profile 2	TF2	В	2 days	£149.00
Thyroid Profile 3	TF3	В	4 hours	£88.00
Thyroxine (T4)	T4	В	4 hours	£40.00
Thyroxine Binding Globulin	TBG	(Frozen)	10 days	£103.00
TSH	TSH	В	4 hours	£44.00
TSH-Receptor Antibodies	TSI	В	4 days	£134.00

REPRODUCTIVE IMMUNOLOGY AT ROSALIND FRANKLIN LABORATORIES, CHICAGO, USA

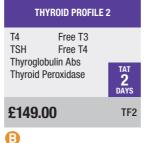
TEST	CODE	SAMPLE REQS	TAT	PRICE
Reproductive Immunophenotype Panel	3RF	000	1 week	£341.00
NK Assay/Cytotoxicity Panel	4RF	000	1 week	£402.00
NK Assay Follow-Up Panel	5RF	$\mathbf{\Theta}\mathbf{\Theta}\mathbf{\Theta}$	1 week	£341.00
TH1/TH2 Cytokine Ratio	6RF	⊕⊕⊕⁵	1 week	£315.00
Leucocyte Antibody Detection Panel MALE	7RF	(1) (1) (3,4,6)	1 week	£0.00 (No charge)
Leucocyte Antibody Detection Panel FEMALE	8RF	В	1 week	£191.00
HLA DR Antigens	9RF	AA	2 weeks	£191.00
HLA DQ Alpha Antigens	10RF	AA	2 weeks	£155.00
HLA DQ Beta Antigens	11RF	AA	2 weeks	£155.00
NK Assay Panel + Intralipids	16RF	000	1 week	£501.00
KIR (Killer-like Immunoglobulin-like Receptors) Genotyping	17RF	AAA	2-3 weeks	£315.00
TH1/TH2 Intracellular Cytokine Ratios with IVIG, Prednisolone	20RF	⊕⊕₅	1 week	£661.00
TH1/TH2 Intracellular Cytokine Ratios with IVIG	21RF	OOO 5	1 week	£529.00
TH1/TH2 Intracellular Cytokine Ratios with Prednisolone	22RF	000 5	1 week	£529.00
Endometrial Biopsy Immune Profiling	23RF	J (Contact Referrals)	2 weeks	£546.00
T Regulatory Cells	25RF	0	3 days	£489.00

Patients who have samples taken at TDL's Patient Reception at 76 Wimpole Street may attend any time during hours of opening on Mondays or Tuesdays, and by **NOON on Wednesdays to allow for same day shipping to Chicago by Fed Ex**. Samples for Rosalind Franklin are not accepted on Thursdays, Fridays or Saturdays. Fed Ex charges are included in these charges.

REPRODUCTIVE IMMUNOLOGY AT ST HELIER, CARSHALTON TEST CODE SAMPLE REOS TAT PRICE NK (CD69) Cell Assay **CD69 (1)*** Send Mon-Thurs only £229.00 **HSNK @@@*** **NK Cytotoxicity Assay** Send Mon-Thurs only £538.00 NK (CD69) and NK Cytotoxicity $\Theta \Theta \Theta^*$ 69C Send Mon-Thurs only £637.00 NK Cytotoxicity with suppression. NKCY $\Theta \Theta \Phi^*$ Send Mon-Thurs only £686.00 steroid, IVIg & Intralipin NK Cytotoxicity with suppression $\Theta \Theta \Phi^*$ with steroid, IVIg and intralipin, 69CI Send Mon-Thurs only £749.00 and NK (CD69) cell assay TH1/TH2 Cytokine Profile 1TH2 $\Theta \Theta \Theta^*$ Send Mon-Thurs only £304.00 Suppression with steroid, IVIg and $\Theta \Theta \Theta^*$ intralipin, NK (CD69) cell assay, NCIT Send Mon-Thurs only £861.00 TH1/TH2 cytokines

^{*} Patients need to attend Patient Reception at 76 Wimpole Street by **11.00am latest Mondays** – **Thursdays**. Samples cannot be accepted on Fridays, Saturdays or Sundays. Allow 2 days for results.









FEMALE HORMONE PR	OFILE
LH FSH Prolactin Oestradiol (17-Beta)	TAT 4 HOURS
£121.00	FIP



B





ERECTILE DYSFUNCTION/ Impotence profile
Lipid Profile Glucose HbA1C TSH Prolactin Total Testosterone Free Testosterone PSA

	TAT 3 DAYS
£198.00	IMPO



are shown on page 46

ANTIMULLERIAN HORMONE/AMH PLUS Age related reference Age Range **Elecsys AMH** intervals in women (pmol/L) The reference intervals below 20 - 29 years 13.1 - 53.8are derived from a population 30 - 34 years 6.8 - 47.8of apparently healthy women 5.5 - 37.435 - 39 yearsnot taking any contraceptive medication. The reference 40 - 44 years 0.7 - 21.2intervals represent the 10th -45 - 50 years 0.3 - 14.790th percentile values for the women in each age bracket. 4 HOURS £105.00 **AMH**

Samples can be taken, at any time during a patient's monthly cycle. Ambient, unspun sample stability has been validated for up to 5 days. Postal samples are therefore acceptable, and samples can also be collected and posted using TDL TINIES.

HRT PROFILE 1 HRT PROFILE 2 AMENORRHOEA PROFILE **FSH** Lipid Profile **FSH** ΙH Oestradiol (17-Beta) **OEST FSH** Glucose Progesterone FT4 Prolactin TAT TAT TAT **TSH** Oestradiol (17-Beta) 4 4 4 HOURS HOURS HOURS £91.00 **HRT** £139.00 HRT2 £121.00 AMEN ß BG ß POLYCYSTIC OVARY PITUITARY FUNCTION PROFILE **METABOLIC SYNDROME PROFILE** SYNDROME: SHORT Lipid Profile TSH Testosterone **FSH** SHBG Glucose HbA1C LH FAI Prolactin **FSH** Insulin hsCRP Growth Hormone TAT IΗ 9 DAYS Adiponectin Cortisol Glucose Insulin Please provide details of time of day sample is taken. Lipid Profile £243.00 **METS** Patient should be FT4/TSH 4 resting for 30 mins HOURS ABBG before sample taking. TAT £149.00 **PCOS** MENOPAUSE PROFILE BG £165.00 **PITF FSH** LH $\mathbf{B}\mathbf{B}$ POLYCYSTIC OVARY Oestradiol (17-Beta) SYNDROME PROFILE **TSH** TAT **FIRST TRIMESTER** Testosterone A fasting FT4 4 SCREENING BLOODS ONLY 9.00am sample **TSH** HOURS (Risk to be calculated is recommended. Glucose by requesting clinician) HhA1C £121.00 **MENO** Free B-hCG **FSH** PAPP-A **DHEAs** ß Insulin Free β-hCG and PAPP-A in serum and sonographic determination of nuchal HIRSUTISM PROFILE translucency (NT) are markers of 17 Hydroxyprogesterone choice to identify women at increased Lipid Profile **FSH** risk of Down Syndrome during the first Prolactin trimester (week 11-13) of pregnancy. LH Cortisol Testosterone Antimullerian Hormone **DHEAs** Androstenedione TAT TAT SHBG 5 DAYS SHBG 4 4 HOURS HOURS £150.00 £73.00 HIRP HCGF/PAPA £470.00 **PCOP**

ABBBG⁷

B

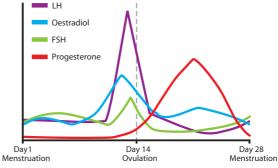
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The tests in this section are drawn from all disciplines of diagnostic pathology and are listed in other appropriate sections in the Laboratory Guide.

PUBERTY

The beginning of the reproductive cycle of life – diagnosis tests may include:

- Oestradiol
- FSH
- LH
- Progesterone
- Androstenedione
- · DHEA sulphate
- Testosterone
- SHBG
- Prolactin



Follicular Phase Luteal Phase

THE MENSTRUAL CYCLE/PREGNANCY

This cycle controls female fertility and is influenced by hormone levels which impact bone health and many other aspects of female physiology. Pregnancy lasts 40 weeks and is divided into trimesters.

First Trimester (week 0-13): confirmation of pregnancy and associated tests may include:

- Pregnancy test (urine)
- · Quantitated Beta HCG (serum)
- Ectopic Pregnancy assessment (Beta HCG and Progesterone)
- Recurrent Miscarriage Profile
- Antenatal Screen
- Nuchal Scan with Free Beta HCG and PAPP-A or Non-Invasive Prenatal Test (Harmony)
 for risk assessment of Downs Risk (a DRP request form must be enclosed with samples,
 see back of guide, and an image of the scan attached to the request form).
 Contact TDL Genetics for details of Non-Invasive Prenatal Testing (NIPT)
- Chorionic Villus Sampling (CVS) for chromosomal analysis (PCR for Rapid Trisomy and karyotyping for the rarer abnormalities)
- Toxoplasma/Varicella Zoster/Parvovirus/CMV

Second Trimester (week 14-26):

testing is primarily directed at evaluating the actual and potential development of the baby and may include:

- Downs Risk Profile (Triple Test +)
- Amniocentesis for chromosomal analysis (AmnioPCR for Rapid Trisomy and karyotyping for the rarer abnormalities)
- · Glucose and Protein (urine or serum)
- Pre-eclampsia Screen

Third Trimester (week 27-40):

testing for foetal wellbeing and the health of the mother may include:

- Glucose and Protein (urine or serum)
- Toxoplasma
- Atypical antibody screening
- Group B Strep (From 35 weeks rectal and low vaginal swabs)
- Chlamydia

INFERTILITY

Infertility and its management is increasingly implicated in growing numbers of clinical disciplines. More recently, greater emphasis is being given to male infertility. Recent data suggests that approximately 40% of all infertility is ascribed entirely, or in part, to male factors, 40% to female factors with an additional 20% unexplained. Testing at the outset of infertility treatment can reduce some of the emotional and financial costs, as well as allowing couples to pursue other possible options.

- Hormones
- Lifestyle/Environmental
- Ovarian Reserve
- Unexplained Infertility/Implantation failure
- · Male Factors

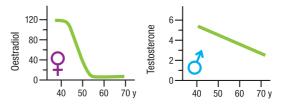
- Infection
- Chromosomes/Genetics
- Polycystic Ovary Syndrome
- Recurrent/Spontaneous miscarriage

AGEING

Reaching menopause and andropause is a gradual process with modulating hormones as ovarian function declines in women, and the more gradual, less defined and highly variable effect in men. Testing may include:

- Hormones (Menopause/Andropause Profile)
- Testosterone/Free testosterone/ Bioavailable Testosterone
- SHBG
- DHEAs
- · Thyroid function
- Osteoporosis/Bone Markers

General patterns of age-related decline in estradiol levels in women (left) and total testosterone levels in men (right)



TV				TV
ΠМ	FE	КI	ILI	ш

HORMONES		
FEMALE	MALE	
FSH – day 2/3	Testosterone/Prolactin/FSH/LH	
LH	Sex Hormone Binding Globulin	
Oestradiol	Inhibin B (male)	
Antimullerian Hormone (AMH)	Male Hormone Profile	
Progesterone – day 21	Andropause Profile	
Female Hormone Profile	Insulin Resistance	
Prolactin	Erectile Dysfunction	
	Impotence Profile	

INFECTION		
FEMALE	MALE	
High Vaginal swab	Investigations for prostatitis/urethritis	
Cervical swab	Mycoplasma Genitalium	
Bacterial Vaginosis screen	Ureaplasma	
Toxoplasma	Chlamydia/Gonorrhoea	
Chlamydia/Gonorrhoea	Chlamydia in Semen	
CMV	Hep B sAg/Hep B Core Abs/Hep C/HIV 1&2	
Syphilis	Herpes Simplex I/II by PCR	
Hep B sAg/Hep B Core Abs/Hep C/HIV 1&2	Semen culture	
Herpes Simplex I/II by PCR	Syphilis	
STI Profiles	STI Profiles	
Infection screening by PCR	Infection screening by PCR	

LIFESTYLE/ENVIRONMENT		
FEMALE	MALE	
Well Person Profile DL6	Fit for Fertility Male Profile	
Zinc, Lead	Well Person Profile DL6	
Trace Metal Profile (blood)	Trace Metal Profile (blood)	
Antioxidant Activity	Antioxidant Activity	
Thyroid Profiles	Thyroid Profiles	
Vitamin Profiles	Vitamin Profiles	
Vitamin D (25 OH)	Vitamin D (25 OH)	
Folate	Folate	
Selenium	Selenium	
Omega 3/Omega 6	Zinc	
	Omega 3/Omega 6	
	Oxidative Stress (ROS) in Semen	

CHROMOSOMES/GENETICS		
FEMALE	MALE	
Chromosome/Karyotype (parental) Fragile X (female) Cystic Fibrosis Screen Tay Sachs Jewish Carrier Profile Inherited disorders (specific)	Chromosome/Karyotype (parental) Male Hormone Profile Y-Chromosome microdeletion Fragile X Male Cystic Fibrosis Screen Tay Sachs Jewish Carrier Profile Inherited disorders (specific)	

OVARIAN TUMOUR				
FEMALE				
Antimullerian Hormone (AMH)	CA 125/HE4			

POLYCYSTIC OVARY SYNDROME

FEMALE

Polycystic Ovary Profile

UNEXPLAINED INFERTILITY/IMPLANTATION FAILURE /RECURRENT MISCARRIAGE

FEMALE	MALE
Recurrent Miscarriage Profile Reproductive Immunophenotyping (CD 3/4/8, CD 5/19, CD 16/56/69) NK Cell Profile Antiphosholipid Antibodies Lupus anticoagulant and Anticardiolipin Antibodies Thrombotic Profile	Chromosome/Karyotype (parental) Y-Chromosome microdeletion Sperm DNA Fragmentation Sperm aneuploidy Infection screening (See Infection) Heavy Metals (Blood) Male Recurrent Miscarriage Profile Oxidative Stress in Semen (Reactive Oxygen Species)

SPERM HEALTH

MALE

See TDL Andrology on page 56.

The single most important factor determining a man's fertility potential is the production of healthy sperm. A semen analysis has classically been used as the marker of this potential, by providing information about the sperm count, motility and morphology. However, there are other parameters given in a semen analysis that are often neglected or overlooked, which may indicate important pathologies – such as infection, prostatic disease, immunological infertility, retrograde ejaculation, malformation or obstruction of the genital tract, tumour, and congenital or endocrine disorders.



Early diagnosis of the male factor is important in order to detect any underlying pathology, determine the extent of infertility and ensure appropriate treatment. It may also avoid unnecessary investigations for the female partner, particularly if her age is a limiting factor.

For men who have had a vasectomy, clearance should only be given when there is no evidence of presence of sperm in two consecutive semen samples. It is therefore vital to ensure that results are reported according to best practice guidelines. Special clearance may be given at the doctor's discretion when there are persistent non-motile sperm present.

Guidelines for Producing Samples

Ideally semen samples should be produced on-site at TDL's Patient Reception at 76 Wimpole Street. Ideally patients must abstain from ejaculation for 2-3 days prior to the test, but no less than 2 days and no longer than 5 days before the test. This requirement is important for semen analyses and post vasectomy analyses to ensure reliability of results. It is possible that samples that do not comply with guidelines for abstinence and collection may not be able to be processed. All semen samples must be produced directly into the sterile containers provided by The Doctors Laboratory.

All containers are weighed and batch tested for sperm cytotoxicity. In exceptional circumstances when semen samples are produced off-site, they can only be accepted by the Andrology Department in sample containers provided by TDL.

WHO 2010 guidelines state that two semen analyses should be performed before any diagnosis is confirmed. This may require requests for two (separate) semen analyses.

Appointments

It is important to make an appointment for all semen samples (on or off site) whether for a comprehensive semen analysis or post vasectomy analysis. It may be necessary to give patients who attend without an appointment a specific time to re-attend. The first appointments for post vasectomy samples should usually be 12 weeks and 20 ejaculations after surgery.

Appointments can be made by calling $020\ 7025\ 7940$. There is an attendance fee of £35.00 in addition to pathology charges.

Please complete a Pathology Request Form for your patient. If you would like to request other pathology, you can use the same form or complete a second additional form. Results will usually be reported to you within 48 hours.

If you would like to discuss these tests, or any aspect of this service, please contact TDL Andrology on 020 7025 7940 or email andrology@tdlpathology.com for further information.

	SEMEN			
TEST	CODE	SAMPLE REQS	TAT	PRICE
Oxidative Stress in Semen (ROS+MIOXSYS)	SROS	Semen 1	1 day	£206.00
Retrograde Ejaculation	RTR0	Contact Lab	2 days	£79.00
Semen Analysis, Comprehensive*	SPER	Semen 1	2 days*	£179.00
Semen Analysis, Post-Vasectomy**	PVAS	Semen 1	2 days	£97.00
Semen Analysis, Vasectomy Reversal*	SPER	Semen 1	2 days*	£179.00
Semen Culture	SPCU	Semen	2-4 days	£42.00
Semen Fructose	SPCF	Semen	2 days	£76.00
Semen Leucocytes	PMNS	Semen	2 days	£97.00
Semen Parameters	SPOD	Semen 1	1 day	£64.00
Sperm Aneuploidy	SPPL	Semen 1	4 weeks	£743.00
Sperm Antibodies (Serum)	ASAB	В	5 days	£112.00
Sperm Antibodies / MAR Test (Semen)†	ASPA	Semen	1 day	£98.00
Sperm Comet®	CMET	Semen	1-2 weeks	£258.00
Sperm Count (Post-Vasectomy)	PVAS	Semen 1	2 days	£97.00
Sperm DNA Fragmentation (SCSA)	SEXT	Semen 1	1-2 weeks	£258.00
Sperm Morphology (Kruger strict criteria)	MRPH	Semen 1	2 days	£79.00
Semen Zinc	SPCZ	Semen	up to 10 days	£32.00
Semen parameters may be requested INDIVIDU Please request as SPOD and indicate on the re	, 0		,	

Semen Parameters	SPOD	Semen ¹	1 day	£64.00
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^{*} If required, comprehensive semen analysis can be reported within 4 hours, with morphology to follow.

- 1 Analysis of post vasectomy semen samples should not occur until 12 weeks post-surgery and after a minimum of 20 ejaculates
- 2 Semen samples must be analysed within 4 hours of production, and in cases where sperm is found a repeat analysis must be performed within 1 hour of production
- 3 Semen should be provided in weighed specimen containers provided by TDL Andrology
- 4 Sexual abstinence should be between 2 and 7 days

^{**} For men who have had a vasectomy, clearance should only be given when there is no evidence of presence of sperm in a single ejaculate when recommendations are met. It is rare that a 'diagnosis' is made without confirmation, therefore patients/clinicians should be able to freely request a second confirmatory sample. Special clearance may be given at the doctor's discretion, when there are <100 000/ml non-motile sperm present after the assessment of two specimens in full accordance with recommendations. Recommendations, as given by the Association of Biomedical Andrologists, the British Andrology Society and the British Association of Urological Surgeons 2016, are as follows:

[†] Sperm antibodies in semen are measured as part of the routine semen analysis.

BY SPECIAL ARRANGEMENT

Sperm swim test
Sperm preparation for overnight survival
Sperm motility and vitality testing for epididymal toxicity
Sperm retrieval procedures (biopsy, PESA, MESA)

Sperm cryopreservation and storage (undertaken by Andrology Solutions – HFEA licensed)

All men who store sperm must be screened for HIV 1&2, Hepatitis B, Hepatitis C and HTLV. Under HFEA regulations, sperm can be stored for an initial period of 10 years with formal consent. All patients are offered counselling prior to sperm cryopreservation.

These arrangements, and details for other specialist semen tests, are available on request. Please contact TDL Andrology on 020 7025 7940 or email sheryl.homa@tdlpathology.com for further information.

Sperm DNA fragmentation

High sperm DNA fragmentation is associated with reduced natural pregnancy rates and assisted conception pregnancy rates as well as live birth rates. In addition, DNA fragmentation leads to higher miscarriage rates as published in the ESHRE Recurrent Pregnancy Loss 2017 Guideline. High levels of DNA fragmentation may be reduced by considering varicocele repair, treatment of underlying infections or inflammation, changes in lifestyle or with antioxidant supplements.

When requesting Sperm DNA Fragmentation there are two options. Please specify whether the request is for sperm DNA fragmentation by **SCSA** or **COMET**.

Sperm Chromatin Structure Assay (SCSA®) [SEXT]

This test has the ability to measure large numbers of cells (between 5,000 and 10,000 sperm), rapidly in an ejaculate. The SCSA® test monitors the changes in fluorescence of a probe, acridine orange, to detect both single and double DNA strand breaks using flow cytometry. It has been developed using human and animal models over the last 35 years and is one of the most statistically robust tests available for sperm DNA fragmentation. It is a standardised, validated CLIA approved test with high reproducibility and low variability. The test requires a minimum sperm count of approximately 1 million/ml.

Sperm COMET® Assay [CMET]

When sperm counts are limited, DNA fragmentation can be effectively assessed using the Comet® assay as only ~5,000 sperm are required. The Comet® assay uses electrophoresis to determine abnormal sperm, and can measure both single and double strand breaks. Unlike the SCSA® test, the comet assay may be subject to inter-observer variability and may be less statistically robust as it measures low counts of 50 to 100 sperm cells from each sample.

Sperm Aneuploidy

Chromosomal abnormalities may be somatic cell in origin, in which case they can be detected by a simple blood karyotype analysis. However, most sperm chromosome anomalies arise as a result of errors during meiosis, which cannot be detected by a blood karyotype analysis. These anomalies can only be detected by looking at the sperm chromosomes directly. Studies have shown that sperm with a high rate of aneuploidy have a negative impact on pregnancy rate and are associated with recurrent pregnancy loss.

This test uses fluorescent in situ hybridisation (FISH) to label individual chromosomes with specific probes. Hundreds of sperm are assessed from one ejaculate. There are limitations to the test as only 5 probes are currently used routinely for analysis (three of the 22 autosomes: chromosomes 13, 18 and 21, and the sex chromosomes, X and Y), although others are available upon specific request. The results are reported showing incidence of disomy or nullisomy for each of the autosomes and for both sex chromosomes. A sex chromosome ratio is also reported. It is CE marked.

Instructions for collection of Sperm DNA and Aneuploidy specimens

Sperm DNA Fragmentation or Sperm Aneuploidy testing are not part of the Comprehensive Semen Analysis and need to be requested as a separate test, test code SEXT and SPPL, respectively. Semen samples ideally need to be frozen as soon as possible after liquefaction, but not longer than 60 minutes post ejaculation. Samples must be snap-frozen for Sperm DNA Fragmentation and cryopreserved in TYB for Sperm Aneuploidy. If samples are prepared by another laboratory. Two cryovials containing not less than 0.25 mls of semen is required. Frozen samples can be sent to, or collected by TDL, by arrangement, and must be accompanied with relevant patient details, the sperm count and GDPR consent form. A count of a minimum 1 million/ml is required for accurate DNA and aneuploidy reporting.

Oxidative Stress in Semen (ROS + MIOXSYS) and Male infertility

There is now growing evidence to support a link between oxidative stress and male infertility. It is the underlying cause of sperm DNA damage and impairs semen parameters and fertilisation, adversely affects embryo development and is associated with reduced pregnancy rates. It may also increase the risk of miscarriage. High levels of ROS may be reduced by considering varicocele repair, treatment of underlying infections or inflammation, changes in lifestyle or with antioxidant supplements.

TDL provides a comprehensive assessment of oxidative stress by **combined measurement of Reactive Oxygen Species and Redox Potential**. Please request as oxidative stress test (code **ROS**).

The test includes combined testing for:

• Chemiluminescence Assay for Reactive Oxygen Species

Reactive Oxidative stress may be measured by a simple chemiluminescence test in semen, which measures the level of reactive oxygen species.

MIOXSYS Electrochemical Assay for Redox Potential

Oxidative stress may be determined by an electrochemical assay which measures the redox potential in semen. This test measures the overall difference between total oxidants and antioxidants in the system.

References

Homa ST, Vessey W, Perez-Miranda A, Riyait T, Agarwal A (2015). Reactive oxygen species (ROS) in human semen: determination of a reference range. J Assist Reprod Genet 32(5):757-64.

Vessey W, Perez-Miranda A, Macfarquhar R, Agarwal A, Homa S. (2014). Reactive oxygen species (ROS) in human semen: validation and qualification of a chemiluminescence assay. Fertil Steril. 102:1576-1583.

If you would like to discuss these tests, or any aspect of this service, please contact TDL Andrology on 020 7025 7940 or 020 7307 7373, or email andrology@tdlpathology.com.

Effects of ROS-induced Oxidative Stress on Sperm

- Lipid peroxidation which damages the sperm surface causing an abnormal morphology and impaired motility.
- Damage to proteins on cell surface responsible for cell signalling and may affect enzyme function inside the cell.
- · Increased semen viscosity.
- Peroxidation of DNA and subsequent unravelling or fragmentation.
- · Possible mutagenic effects.
- Damage to seminiferous epithelium, damage to tubules, testicular atrophy, reduced spermatogenesis.
- · Decrease in sperm vitality, motility.
- Impaired fertilization by affecting sperm capacitation and the acrosome reaction.

Causes of Elevated ROS Levels

- Genito-urinary tract infection
- Prostatitis
- · Vasectomy reversal
- Varicocoele
- Cryptorchidism
- · Chronic disease
- Xenobiotics
- Chemical pollutants and occupational hazards
- Heavy metal exposure
- Removal of seminal plasma during sperm preparation for assisted conception
- Drugs cyclophosphamide, aspirin, paracetamol
- Smoking
- Excessive exercise
- Heat exposure
- Obesity
- Age

Semen samples need specialist handling – for this reason all requests for semen analyses should be made by appointment. Practices or patients should contact TDL Andrology on 020 7025 7940 to make appointments and to confirm instructions for sample collection.

TEST	CODE	SAMPLE REQS	TAT	PRICE
7 STI's by PCR	PP12	FCRU/PCR/TPV	2 days	£240.00
Chlamydia (PCR swab)	SPCR	PCR	2 days	£64.00
Chlamydia (Thin Prep)	TPCR	TPV	2 days	£75.00
Chlamydia (Urine)	CPCR	FCRU	2 days	£64.00
Chlamydia/Gonorrhoea (PCR Swab)	SCG	PCR	2 days	£64.00
Chlamydia/Gonorrhoea (Rectal)	RSCG	PCR	2 days	£64.00
Chlamydia/Gonorrhoea (Thin Prep)	TCG	TPV	5 days	£75.00
Chlamydia/Gonorrhoea (Throat)	TSCG	PCR	2 days	£64.00
Chlamydia/Gonorrhoea (Urine)	CCG	FCRU	2 days	£64.00
Chlamydia/Gonorrhoea/Trichomonas by PCR	CCGT	FCRU/PCR/TPV	2 days	£97.00
Early Detection Screen PCR/NAAT	STDX	(A) 10mls or 2x4mls	3 days	£162.00
Early Detection Screen PCR/NAAT with Syphilis	STXX	(B) (A) 10mls or 2 x 4mls	3 days	£181.00
Gardnerella vaginalis by PCR	GVPC	FCRU/PCR/TPV	2 days	£75.00
Gonorrhoea (Culture)	GONN	CS	2-3 days	£50.00
Gonorrhoea (PCR swab)	SGON	PCR	2 days	£64.00
Gonorrhoea (Thin Prep)	TGON	TPV	2 days	£75.00
Gonorrhoea (Urine)	CGON	FCRU	2 days	£64.00
Haemophilus ducreyi by PCR	DUCR	PCR	7 days	£140.00
Hepatitis A Profile	HEPA	В	4 hours	£69.00
Hepatitis B sAg	AUAG	В	4 hours	£42.00
Hepatitis C Antibodies	HEPC	В	4 hours	£85.00
Hepatitis C Antigen (Early detection)	HCAG	В	4 hours	£52.00
Herpes Simplex I/II by PCR (Swab)	HERS	PCR	5 days	£75.00
Herpes Simplex I/II by PCR (Urine)	HERD	FCRU/PCR/TPV	4 days	£75.00
HIV 1 & 2/p24Ag	HDU0	В	4 hours	£46.00
HIV/HBV/HCV Screen by PCR/NAAT	STDX	A 10mls or 2x4mls	3 days	£162.00
HIV/HBV/HCV (Early detection by PCR/NAAT) with Syphilis	STXX	B A 10mls or 2 x 4mls	3 days	£181.00
HIV Rapid RNA HIV-1 QUALITATIVE	LHIV	A	4 hours	£149.00
HIV Rapid RNA HIV-1 QUANTITATIVE	RHIV	A	4 hours	£149.00
HPV (DNA and reflexed mRNA) by PCR	HPVT	TPV	3 days	£118.00
HPV (HR mRNA types 16, 18 + others)	HPV	TPV	2-3 days	£59.00
HPV (individual low & high risk DNA subtypes) HP20	TPV/PCR	2-3 days	£93.00
Lymphogranuloma Venerium (LGV)	LGVP	PCR*42	1-2 weeks	£96.00
Macrolide Resistance Test (Mgen)	MGR	FCRU/PCR	1-2 weeks	£162.00
Mycoplasma genitalium by PCR	MGEN	FCRU/PCR/TPV	2 days	£75.00
Mycoplasma genitalium/Ureaplasma by PCR	MUPC	FCRU/PCR/TPV	2 days	£97.00
RPR	RPR	B	2 days	£32.00
STD1 M/F STD Quad	STD1	(3) FCRU	2 days	£112.00
STD2 M/F STI Profile Plus (Urine and Serology)	STD2	FCRU (If culture swabs are needed please request separately)	4 days	£323.00

^{*} LGV can be added to a positive chlamydia sample using the same swab if requested within 4 days of receipt of result.

TEST	CODE	SAMPLE REQS	TAT	PRICE
STD3 Female STD Quad (PCR Swab and Serology)	STD3	B PCR	2 days	£112.00
STD4 Female STI Profile Plus (PCR Swab and Serology)	STD4	PCR (If culture swabs are needed please request separately)	4 days	£323.00
STD5 Serology only	STD5	B	4 hours	£123.00
STD6 Serology only without HIV	STD6	B	4 hours	£115.00
STD8 Vaginitis/BV Profile using culture & PCR SWAB	STD8	PCR/STM	3 days	£95.00
STD9 Symptomatic lesion sample using PCR Swab from lesion & PCR SWAB	STD9	2x PCR Swab	7 days	£105.00
STI Profile: MSM1	MSM1	(E)/FCRU/PCR Swab Throat/PCR Swab Rectal	2 days	£175.00
STI Profile: MSM2	MSM2	(E)/FCRU/PCR Swab Throat/PCR Swab Rectal	3 days	£361.00
Swab for Culture (Any Site)	SWAB	STM	2-4 days	£50.00
Syphilis by PCR (chancre)	SYPS	PCR	5 days	£122.00
Syphilis IgG/IgM	SERJ	B	4 hours	£52.00
ТРРА	TPPA	B	2 days	£32.00
Trichomonas vaginalis by PCR	TVPC	FCRU/PCR/TPV	2 days	£75.00
Ureaplasma by PCR	UGEN	FCRU/PCR/TPV	2 days	£75.00
Vaginitis/BV Profile using culture & PCR SWAB	STD8	PCR/STM	3 days	£95.00

RAPID XPERT HIV-1

For some patients earlier diagnosis of HIV infection is important. **Xpert HIV-1 Qual** is a qualitative test that provides on-demand molecular testing for early diagnosis (from 10 days).

FOR PATIENT ON TREATMENT FOR HIV

Xpert HIV-1 Viral Load accommodates on demand testing and measurement of blood plasma HIV-1 RNA concentration (HIV viral load/40 copies/ml) which has been established as the standard of care in assessing HIV-positive patient prognosis and response to antiretroviral therapy. Assessment of viral load levels is a strong predictor of the rate of disease progression and, by itself or in combination with CD4 T-cell counts, has great prognostic value.

- Improve Patient Care: Same day results support better clinical decisions
- Increase Efficiency: Rapid results enable earlier adjustments to appropriate therapy
- Strengthen Communities: Quick decisions can help reduce drug resistance

Chlamydia

Chlamydia is the most common curable STI diagnosed in the UK. Often asymptomatic, anyone who is sexually active is considered to be at increased risk of chlamydia infection. It is the most commonly recognised, screened and treated of all STI's. Allow 6 weeks before re-testing to avoid picking up the DNA from a previous infection.

Gonorrhoea

Gonorrhoea is caused by the bacterium *Neisseria gonorrhea*, which multiplies easily in the mucous membranes of the male and female reproductive tract. It can cause serious and permanent health conditions if not treated. Symptoms of gonorrhoea are usually overt in men with white, yellow, or green discharge from the penis. Gonorrhoea can also infect the throat and rectum – individual PCR swabs from **each site** should be taken to screen for gonorrhoea. Resistance to antibiotics is increasing and treatment is now combined oral and injectable antibiotics. **Partners should be treated at the same time with retesting after two weeks to confirm clearance** – **test of cure is recommended following treatment for gonococcal infections**.

Mycoplasma Genitalium (M.Gen)

M.gen is an important sexually transmitted pathogen detectable only by NAAT. M.gen lacks a cell wall and has limited treatment options. It spontaneously develops resistance to antimicrobials. BASHH recommends treatment with Resistance Guided Therapy – testing for M.gen with macrolide resistance determination. M.gen cannot be cultured for diagnostic testing. M.gen prevalence is higher than GC, and in some populations can be similar to CT. M.gen risk factors are similar to CT and consider testing M.gen in all males with non-GC urethritis and all individuals with signs or symptoms of PID, cervicitis, endometritis, associated infertility, ano-rectal condition or epididymo-orchitis. Partner testing is advised for current partners only. Rectal infections are common, and appear to be an important reservoir for resistance. BASHH guidance – all patients must return for test of cure at 3-5 weeks.

Macrolide Resistance Testing (M.gen)

Prevalence of M.gen in men and women in the general population is 1-2%. *Mycoplasma genitalium* has been implicated as a cause of acute and chronic non-chlamydial non-gonococcal urethritis in males and post coital bleeding, cervicitis, endrometritis and pelvic inflammatory disease in females. It is a sexually transmitted, fastidious microorganism that is extremely difficult to culture — with nucleic acid amplification testing (NAAT urine or swab) being the only method available for routine *M. genitalium* detection. Macrolides are generally considered the first-line treatment for *M. genitalium* infections. However, **resistance to macrolides** seems to be increasing worldwide typically exceeding > 40% in male patients who are detected positive for M.gen at screening.

M.gen can be requested as a single PCR test or with CT/GC, with or without other testing options. Important updates to the UK BASHH *M. genitalium* management guidelines are taking the issue of antimicrobial resistance seriously. The draft guidelines have been posted for consultation and include a grade 1B recommendation to test for antimicrobial resistance, stating the importance of knowing the macrolide resistance status to determine whether azithromycin should be prescribed. The guidelines aim to support laboratories in making a case for increased funding to bring in the necessary testing to manage *M. genitalium* infections and associated antimicrobial resistance.

Ureaplasma

U. Urealyticum and parvum are strains of bacteria that can lead to urinary tract infection and pelvic inflammation. Usually asymptomatic, it is part of the normal genital flora of both men and women. It is found in about 70% of sexually active humans. In males with lower sperm quality, ureaplasma infection could lead to a more pronounced decreased in some seminal parameters and compromise sperm motility.

Trichomoniasis

Trichomoniasis is caused by a tiny parasite called *Trichomonas vaginalis* — and is one of the most common STI's worldwide. Frequency of coinfection with other STI's is well recognised, and notably, infection increases the risk of HIV transmission in both men and women. It is associated with adverse pregnancy outcomes, infertility, and cervical neoplasia. Some women may mistake this infection for a yeast infection or bacterial vaginosis since the symptoms are similar: frothy discharge, strong vaginal odour, pain on intercourse, irritation and itching. Men can get trichomoniasis too, but they don't tend to have symptoms. It seems to be linked to male factor infertility. Partners (male or female) need to be treated to avoid ongoing re-infection. Infected women who are sexually active have a high rate of reinfection, **thus re-screening at 3 month post treatment could be considered**

Gardnerella vaginalis

'Gardnerella vaginalis is a bacterium rather than a sexually transmitted infection. It is part of the normal vaginal flora but, when the normal balance of bacteria in the vagina is disrupted, it can flourish and overgrow leading to bacterial vaginosis. Does it matter if it not an STI? Yes, because it can be characterised by a fishy smelling, white vaginal discharge, itching, burning, and irritation, and there are some known pregnancy and pelvic inflammatory conditions associated with Gardnerella as well as a higher risk of getting other STI's.

In a patient with signs and symptoms suggestive of bacterial vaginosis detection of Gardnerella vaginalis provides supportive evidence of bacterial vaginosis. It can, however, be detected in asymptomatic individuals and it can also be absent in patients with bacterial vaginosis which has been caused by overgrowth of other similar organisms such as Mobiluncus and Atopobium species. Results should be interpreted in line with patient's clinical symptoms and microscopy.

Herpes/Herpes Simplex Virus I/II

Genital herpes caused by the herpes simplex virus (HSV). The virus lives in the nerves and when active it travels to the surface of the infected area and makes copies of itself – called shedding, because new virus cells can at this time rub off onto another person. The virus travels back down the nerve to a ganglion usually at the base of the spine where it lies dormant for a while. It causes painful blisters on the genitalia and surrounding areas. It can be passed through intimate sexual contact and for this reason is referred to as an STI. Once infected, it remains a chronic long term condition with the virus remaining with recurrent activity with variable frequency. There are two types of herpes simplex virus: Type I and Type 2. Both are highly contagious and can be passed easily from one person to another. There is no cure for genital herpes, the symptoms can usually be controlled by antiviral medication. Although using a condom can reduce the risk of herpes transmission, condoms are not 100% effective since herpes can be spread from skin-to-skin.

Lymphogranuloma venereum (LGV)

LGV is a type of chlamydia bacteria that attacks the lymph nodes. It is seen predominantly in gay and bisexual men, and very rarely seen in the UK in heterosexual men and women.

Nearly all LGV infections seen in the UK in recent years have been in the rectum. Within a few weeks of becoming infected, most people get painful inflammation in the rectum with bleeding, pus, constipation or ulcers, sometimes with fever, rash and groin, armpit or neck swelling. Left untreated, LGV can cause lasting damage to the rectum that may require surgery. LGV in the penis might cause a discharge and pain when urinating, with swollen glands in the groin. LGV in the mouth or throat is rare but can cause swollen glands in the neck.

Investigation for possible LGV symptoms is by PCR swab taken from the rectum and penis. If LGV infection is suspected in female patients, cervical and vaginal PCR swabs should be taken. Samples are first tested for chlamydia and if chlamydia is detected, if LGV is suspected, swabs can be further tested, if requested, for LGV as an additional tests, using the same swab samples. Sexual contact partners should also be checked.

FASTest Test Now Sexual Health Screening-ahead of expected time

FAST SSC Fast Screen SHORT HIV 1&2/p24 Ag Syphilis IgM/IgG FAST Urine CT/GC 4 HOURS £122.00 **FSSC**



FUSC

FAST USC

£225.00

PCR

FCRU

PCR

FAST SSS Fast Screen SHORT with SWAB HIV 1&2/p24 Ag Syphilis IgM/IgG FAST Swab CT/GC HOURS £122.00 **FSSS**





FAST	SINGLE TESTS	Sample type
FCT	FAST Chlamydia Urine	FCRU
FGN	FAST Gonorrhoea Urine	FCRU
FCG	FAST CT/GC Urine	FCRU
FSCT	FAST Chlamydia PCR Swab	PCR Swab
FSGN	FAST Gonorrhoea PCR Swab	PCR Swab
FSCG	FAST CT/GC PCR Swab	PCR Swab
FTCG	FAST CT/GC Throat PCR Swab	PCR Swab
FRCG	FAST CT/GC Rectal PCR Swab	PCR Swab
£87.	00 each	

STI's can be caused by virus, fungus, parasite or bacteria. Anyone who is sexually active may be at risk of acquiring an STI. The risk is higher for those with increased numbers of sexual partners, or who have had sex with someone who has/had many partners, or have had unprotected sex.

STI		INCUBATION PERIOD	SAMPLE SITE
Chlamydia CT	Bacterial	1-3 weeks, up to 6 weeks	Urine Cervix/Vagina Cervix/Vagina
Gonorrhoea GC	Bacterial	2–7 days, up to 1 month	Urine Cervix/Vagina Cervix/Vagina Cervix/Vagina
CT/GC Combined	Bacterial	1-3 weeks, up to 6 weeks	Urine Cervix/Vagina Cervix/Vagina Rectum Throat
Mycoplasma genitalium	Bacterial	Symptoms develop at 1–3 weeks	Urine GU Site Cervix/Vagina
Ureaplasma urealyticum	Bacterial	Symptoms develop at 1–3 weeks	Urine GU Site Cervix/Vagina
Trichomonas vaginalis	Parasitic	4–28 days, many patients are asymptomatic carriers	Urine GU Site Cervix/Vagina
Gardnerella vaginalis	Bacterial	Imbalance of normal flora	Urine GU Site Cervix/Vagina
Bacterial Vaginosis (BV)	Bacterial	Imbalance of normal flora	Cervix/Vagina
Herpes Simplex Viral I/II	Viral	2-14 days, testing is most appropriate for patients with symptomatic lesion(s)	Herpes lesion
Human Papillomavirus	Viral	HPV is the most common sexually transmitted infection – usually asymptomatic	Cervical cells Cells/papilloma from site (throat/penile/anal)
Genital warts	Viral	Weeks/months after exposure	GU Warts
Syphilis/Herpes	Bacterial/ Viral	Whenever active lesions are present	Symptomatic lesion

TEST	TEST CODE	SAMPLE TYPE	TAT
Chlamydia	CPCR	First catch Urine	2 days
Chlamydia	SPCR	PCR Swab	2 days
Chlamydia	TPCR	Thin Prep Vial	2 days
Gonorrhoea by PCR	CGON	First Catch Urine	2 days
Gonorrhoea by PCR	SGON	PCR Swab	2 days
Gonorrhoea by PCR	TGON	Thin Prep Vial	2 days
Gonorrhoea by CULTURE	GONN	Black Charcoal swab	2-3 days
CT/GC	CCG	First Catch Urine	2 days
CT/GC	SCG	PCR Swab	2 days
CT/GC	TCG	Thin Prep Vial	5 days
CT/GC	RSCG	PCR Swab	2 days
CT/GC	TSCG	PCR Swab	2 days
Mycoplasma genitalium by PCR	MGEN	First Catch Urine	2 days
Mycoplasma genitalium by PCR	MGEN	PCR Swab	2 days
Mycoplasma genitalium by PCR	MGEN	Thin Prep Vial	2 days
Ureaplasma by PCR	UGEN	First Catch Urine	2 days
Ureaplasma by PCR	UGEN	PCR Swab	2 days
Ureaplasma by PCR	UGEN	Thin Prep Vial	2 days
Trichomonas vaginalis by PCR	TVPC	First Catch Urine	2 days
Trichomonas vaginalis by PCR	TVPC	PCR Swab	2 days
Trichomonas vaginalis by PCR	TVPC	Thin Prep Vial	2 days
Gardnerella vaginalis by PCR	GVPC	First Catch Urine	2 days
Gardnerella vaginalis by PCR	GVPC	PCR Swab	2 days
Gardnerella vaginalis by PCR	GVPC	Thin Prep Vial	2 days
Bacterial Vaginosis (BV) Profile	STD8	Both Microscopy	3 days
by both MICROSCOPY and PCR		& PCR swab	•
Herpes by PCR	HERS	PCR Swab	5 days
Herpes by PCR	HERD	First Catch Urine	4 days
1101,000 03 1 011		ot outon ormo	ruuyo
HPV DNA/mRNA	HPVT	Thin Prep Vial	3 days
HPV Typed DNA	HP20	PCR Swab	2-3 days
HPV Typed DNA	HP20	Cells/Papilloma	2-3 days
HPV Typed DNA	HPVT	Thin Prep Vial	3 days
HPV Typed DNA	HP20	PCR Swab	2-3 days
HPV Typed DNA	HP20	Cells/Papilloma	2-3 days
 Syphilis/Herpes Lesion Profile	STD9	PCR Swab	7 days

BLOOD		INCUBATION PERIOD	SAMPLE SITE	
Syphilis	Bacterial	9-21 days, but up to 90 days	Blood	
Herpes Simplex Virus I/II	Viral	lgG 4–6 weeks after exposure lgM 5–35 days after exposure, after which test lgG	Blood Blood	
HIV	Viral	Usually 10–90 days, but up to 180 days	Blood Blood	
Нер В	Viral	Usually 45–180 days, average of 60–90 days	Blood Blood	
Hep C Ab	Viral	Usually 9–180 days, average of 45–65 days	Blood Blood	
Hep C Ag	Viral	Usually 9–180 days, average of 45–65 days	Blood Blood	

EARLY DETECTION PROFILES BY PCR	INCUBATION PERIOD	SAMPLE SITE
7 STIs by PCR	One sample for 7 STI Tests	Urine Cervix Vagina
HIV/HBV/HCV	Early Detection Screen by PCR Multiplex (HIV from 10 days)	Blood

TEST	TEST CODE	SAMPLE TYPE	TAT
Syphilis IgG/IgM	SERJ	В	4 hours
Herpes IgG (past infection) Herpes IgM (current/recent)	HERP HERM	B B	2 days 2 days
HIV I&II / p24 antigen (screening from 28 days)	HDU0	В	4 hours
Hep B surface antigen	AUAG	В	4 hours
Hep C Antibodies	HEPC	В	4 hours
Hep C Antigen (See table on page 89)	HCAG	В	4 hours

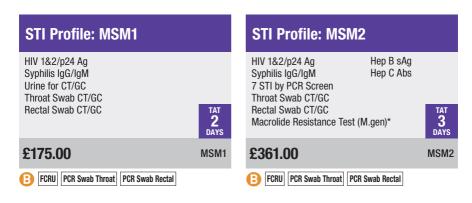
TEST	TEST CODE	SAMPLE TYPE	TAT
Chlamydia Gonorrhoea	PP12	Thin Prep Vial	2 days
Mycoplasma genitalium Macrolide Resistance Test (M.gen)*	PP12	First Catch Urine	2 days
Ureaplasma genitalium Trichomonas vaginalis Gardnerella vaginalis Herpes Simplex I/II	PP12	PCR Swab	2 days
*included if POSITIVE M.gen is detected from the same sample			
HIV 1&2 RNA Hepatitis B (HBV DNA) Hepatitis C (HCV RNA)	STDX	(A) 10mls or 2x4mls	3 days



VAGINITIS/BV PROFILE SYMPTOMATIC LESION SAMPLE STD9 STD8 **USING CULTURE & PCR SWAB** USING PCR SWAB FROM LESION Candida species Syphilis by PCR Gardnerella vaginalis by PCR Herpes Simplex I/II by PCR Trichomonas vaginalis by PCR (from single swab) TAT 3 7 DAYS DAYS £95.00 £105.00 STD8 STD9 PCR STM PCR PCR HIV/HBV/HCV SCREEN **EARLY DETECTION SCREEN WITH SYPHILIS** (HIV1/HIV2/HBV/HCV by PCR/NAAT) (HIV1/HIV2/HBV/HCV by PCR/NAAT) HIV1 and HIV2 (RNA) HIV1 and HIV2 (RNA) Hepatitis B Virus (HBV DNA) Hepatitis B Virus (HBV DNA) Hepatitis C Virus (HCV RNA) Hepatitis C Virus (HCV RNA) Syphilis IaG/IaM Samples must be received in the TAT 3 DAYS TAT 3 DAYS laboratory within 2 days of sample taking Samples must be received in the laboratory within 2 days of sample taking £162.00 £181.00 STDX STXX A 10mls or 2x4mls 10mls or 2 x 4mls 7 STI PROFILE BY PCR (7 TESTS FROM 1 SAMPLE) CT/GC/TRICHOMONAS/MGEN (Urine, Swab, Thin Prep or Semen) Chlamydia trachomatis Chlamydia Gonorrhoea N. Gonorrhoea Trichomonas vaginalis Mycoplasma genitalium Mycoplasma genitalium Macrolide Resistance Test (M.gen)* Macrolide Resistance Test (Mgen)* Ureaplasma Trichomonas vaginalis All tests can be requested individually Gardnerella vaginalis *included if POSITIVE M.gen is detected NEW Herpes Simplex I/II from the same sample. 2020 All tests can be requested individually TAT 2 DAYS TAT *included if POSITIVE M.gen is detected 2 DAYS from the same sample. £97.00 £240.00 PP12 CGTM (Urine) / SGTM (Swab)

FCRU OR PCR Swab OR TPV OR Semen

FCRU OR PCR Swab



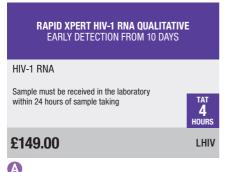
RAPID XPERT HIV-1

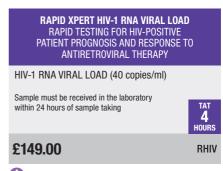
For some patients earlier diagnosis of HIV infection is important. **Xpert HIV-1 Qual** is a qualitative test that provides on-demand molecular testing for early diagnosis (from 10 days).

FOR PATIENT ON TREATMENT FOR HIV

Xpert HIV-1 Viral Load accommodates on demand testing and measurement of blood plasma HIV-1 RNA concentration (HIV viral load/40 copies/ml) which has been established as the standard of care in assessing HIV-positive patient prognosis and response to antiretroviral therapy. Assessment of viral load levels is a strong predictor of the rate of disease progression and, by itself or in combination with CD4 T-cell counts, has great prognostic value.

- Improve Patient Care: Same day results support better clinical decisions
- Increase Efficiency: Rapid results enable earlier adjustments to appropriate therapy
- Strengthen Communities: Quick decisions can help reduce drug resistance







TEST	CODE	SAMPLE REOS	TAT	PRICE
	AHSC	B	4 hours	£149.00
Acute Viral Hepatitis Screen Adrenal Cortex Antibodies	ACTX	<u> </u>	2 days	£149.00 £52.00
ANCA (Anti-Neutrophil Cytoplasmic Abs)	ANCA	B	2 days	£94.00
Anti-Actin Antibodies	AAA	B	5 days	£70.00
Anti-Actin Antibodies Anti-Basal Ganglia Antibodies	ABGA	B	3 weeks	£356.00
Anti CCP Antibodies (RF)	CCP	B		£43.00
,	ALCA	B	2 days	
Anti-Liver Cytosol Antibodies	ALUA	•	5 days	£64.00
Anti-MOG [Myelin Oligodendrocyte Glycoprotein] Antibodies	AMOG	В	3 weeks	£103.00
Anti-MUSK Antibodies	MUSK	B	2 weeks	£277.00
Anti Phospholipase A2 Receptor	AA2R	В	3 weeks	£85.00
Anti-Ri Antibodies	RIAB	B	3 days	£58.00
Anti Sla (Soluble Liver Antigen) Abs	LSA	В	10 days	£100.00
Antinuclear Antibodies (titre & pattern)	ANAB	B	2 days	£44.00
Antistaphylolysin Titre (SGOT)	ASTT	B	2 days	£46.00
Antistreptolysin Titre/ASOT	ASLT	B	2 days	£48.00
Antisulfatide Antibodies	ASA	B	5 weeks	£208.00
Aquaporin 4 Antibodies (Neuromyelitis Optica)	AQUA	B	2 weeks	£224.00
Autoantibody Profile I	AUT0	B	2 days	£123.00
Autoantibody Profile II	END0	B	2 days	£116.00
Avian Precipitins (11 Species)	AVIA	B	5 days	£300.00
Beta 2 Glycoprotein 1 Abs	B2GP	B	5 days	£100.00
Borrelia Antibodies (Lyme Disease) IgG, IgM – see page 83	BORR	B 9,14	2 days	£76.00
Borrelia Antibodies (Lyme Disease) IgM – see page 83	BORM	B	2 days	£59.00
Borrelia Confirmation (Immunoblot) – see page 83	BORC	B 9,14	10 days	£285.00
Brucella Serology	BRUC	B 9	2-3 weeks	£79.00
C1 Esterase Inhibitor	C1EI	B	5 days	£75.00
C3 Complement	C3	B	4 hours	£44.00
C3/C4 Complement	COMP	B	4 hours	£73.00
C4 Complement	C4	B	4 hours	£44.00
Calprotectin/Elastase Profile	CEP	RF	5 days	£129.00
Calprotectin	CALP	RF	5 days	£78.00
Campylobacter Jejuni Antibodies	CJAB	В	5 days	£65.00
Candida Antibodies	CANA	B	5 days	£97.00
Candida Antigen	CCAG	B	5 days	£118.00
Cardiolipin Antibodies (IgG+IgM)	ACAB	В	2 days	£66.00
Cartilage Antibodies	ACA	B	5 days	£105.00
CCP Antibodies (RF)	CCP	B	2 days	£43.00
Centromere Autoantibodies	CAB	B	2 days	£78.00
CH50 (Classical pathway)	CH50	(Frozen)4	4 days	£97.00
Chlamydia Species Specific Ab Screen	СНАВ	B	2 days	£86.00
Chronic Fatigue Syndrome Profile	VIP1	A or Chex+ 10 10	5 days	£332.00
Coeliac/Gluten Sensitivity Profile	GSA	B	2 days	£137.00

TEST	CODE	SAMPLE REQS	TAT	PRICE
Coeliac/Gluten Profile 2	GSA2	AB	10 days	£290.00
Colloid Antigen-2 Antibodies	CA2A	В	2 weeks	£100.00
Cotinine (Serum)	COT	В	2 days	£77.00
Cotinine (Urine)	COTT	RU	2 days	£58.00
Cryoglobulins	CRY0	J ⁶	10 days	£48.00
Diamine Oxidase Activity	DIAM	В	2 weeks	£79.00
DNA (Double Stranded) Antibodies	DNAA	B	2 days	£52.00
DNA (Single Stranded) Antibodies	DNAS	В	5 days	£59.00
Echinococcus (Hydatid) Antibodies	EFAT	B 9,14	5 days	£57.00
Elastase (Faecal)	ELAS	RF	5 days	£90.00
Elastase / Calprotectin Profile	CEP	RF	5 days	£129.00
Endomysial Antibodies (IgA)	AEAB	B	2 days	£76.00
Extractable Nuclear Antibodies (nRNP, Sm, Ro, La, Jo1, Sc170) CENP-B	ENA	B	2 days	£61.00
Faecal Elastase	ELAS	RF	5 days	£90.00
Farmers Lung Precipitins	FARM	В	5 days	£92.00
Fasciola Hepatica Antibodies (Liver Fluke)	FASC	B	2 weeks	£117.00
Ganglionic Acetylcholine Receptor Antibodies	GACA	B	1 month	£96.00
Ganglioside GM1, GD1B, GQ1B Abs	GANG	B	5 days	£197.00
Gastric Parietal Autoantibodies	GASP	В	2 days	£43.00
Gliadin Antibodies (IgG) (deamidated)	AGAB	В	2 days	£79.00
Glomerular Basement Membrane Abs	AGBM	В	2 days	£62.00
Glutamic Acid Decarboxylase Antibodies (GAD 65)	GAD	В	5 days	£130.00
Gluten Allergy Profile	GLUT	ABB	10 days	£300.00
Gluten Sensitivity Evaluation	GSA	В	2 days	£137.00
Gluten/Coeliac Profile 2	GSA2	A B	10 days	£290.00
Granulocyte Immunology	GRIM	AA	2 weeks	£364.00
H. pylori Antibodies (IgG)	HBPA	B	2 days	£62.00
H. pylori Antigen (Breath)	HBQT	J	5 days	£70.00
H. pylori Antigen (Stool)	HBAG	RF	3 days	£70.00
Haemophilus B Influenzae Antibodies	HINF	B	7 days	£93.00
Histamine	HITT	(Frozen plasma)	5 days	£111.00
Histamine (Urine)	HITU	RU	5 days	£111.00
Histamine Releasing Urticaria Test	CURT	B	10-14 days	£138.00
Histone Antibodies	HISA	<u>B</u>	5 days	£90.00
Histoplasmosis	HISP	B	10 days	£122.00
HLA B27	HLAB	A 9	3 days	£180.00
Human Anti-Mouse Antibodies	HAMA	(Frozen)	6 weeks	£130.00
IgE (Total)	IGE	B	1 day	£48.00
Immune-Complexes	IMCP	<u>B</u>	5 days	£85.00
Immunoglobulins (IgG, IgM, IgA)	IMM	<u>B</u>	4 hours	£70.00
Inner Ear Antigen (Ottoblot)	IEA	<u>B</u>	3 weeks	£158.00
Insulin Antibodies	INAB	B	5 days	£81.00
Interferon – Alpha	IFA	(frozen) ⁹	3 weeks	£208.00

TEST	CODE	SAMPLE REQS	TAT	PRICE
Interferon – Gamma	IFG	(frozen)	3 weeks	£208.00
Interleukin 1 Beta	ILB	(frozen) ^{4,7}	1-2 weeks	£184.00
Interleukin 2	IL2	(frozen) ^{4,7}	1-2 weeks	£184.00
Interleukin 4	IL4A	(frozen) ^{4,7}	1-2 weeks	£184.00
Interleukin 6	IL6	(frozen) ^{4,7}	1-2 weeks	£184.00
Interleukin 8	IL8	(frozen) ^{4,7}	1-2 weeks	£290.00
Interleukin 10	IL10	(frozen) ^{4,7}	1-2 weeks	£306.00
Interleukin 28b Genotype	IL28	A	2 weeks	£355.00
Intrinsic Factor Antibodies	IFAB	В	2 days	£87.00
Islet Cell Antibodies	ICAB	В	2 days	£57.00
Legionella Antibodies	LEG0	В	2 days	£67.00
Legionella Urine Antigen	LEGA	RU	1 day	£112.00
Leptospirosis (Weil's Disease) Abs (IgM)	LEP	В	5 days	£100.00
Leukotriene E4	LTE4	CU (Frozen)	3 weeks	£364.00
Liver Immunoblot	LIV1	B	5 days	£150.00
Liver Kidney Microsomal Antibodies	LKM	В	2 days	£43.00
Lupus Anticoagulant and Anticardiolipin Abs	LUPA	B C 4,18	2 days	£94.00
Lyme Disease (Borrelia Abs) IgG, IgM	BORR	B 9,14	2 days	£76.00
Lyme Disease (Borrelia Abs) IgM	BORM	В	2 days	£59.00
Meningococcal Abs	MENI	В	2-4 weeks	£82.00
Mitochondrial Antibodies	AMIT	В	2 days	£43.00
Mitochondrial Antibodies M2	MAM2	В	2 days	£192.00
Myasthenia Gravis Evaluation	MGE	B	5 days	£140.00
Myelin Associated Glycoprotein Antibodies	MAG	В	5 days	£263.00
Myelin Basic Protein Antibodies	MBPA	В	2 weeks	£85.00
Myeloperoxidase Antibodies	MP0	В	2 days	£49.00
Myocardial Antibodies	MY0	В	1 week	£66.00
Myositis Panel	MYOS	В	2 days	£97.00
Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2)	NEUR	В	10 days	£252.00
NMDA Receptor Antibodies	NMDA	В	3 weeks	£185.00
Nucleic Acid Antigen Antibodies	DNA	В	2 days	£64.00
Oligoclonal Bands	CSF0	CSF+ B	5 days	£211.00
Ovarian Autoantibodies	OVAB	В	2 days	£62.00
Paragomius Serology	PRGM	В	2 weeks	£115.00
Parathyroid Antibodies	PTHA	В	1 week	£79.00
Pemphigus/Pemphigoid Autoantibodies	SKAB	В	2 days	£52.00
Pituitary Antibodies	PITU	B 4	1 month	£83.00
Pneumococcal Antibodies – Serotype Specific	PASS	В	5 weeks	£221.00
Pneumococcal Antibody Screen	PNEU	В	7 days	£91.00
Proteinase 3 Ab	PR3	В	2 days	£48.00
Purkinje Cell Antibody (Hu and Yo)	NEUR	В	10 days	£53.00
Rheumatoid Factor (Latex Test)	RF	В	1 day	£28.00
Rheumatology Profile 1 (Screen)	RH	AB	2 days	£116.00
Rheumatology Profile 2 (Connective tissue)	RH2	AABB	3 days	£344.00

TEST	CODE	SAMPLE REQS	TAT	PRICE
Rheumatology Profile 3 (Rheumatoid/Basic)	RH3	A B	2 days	£168.00
Rheumatology Profile 4 (Systemic Lupus)	RH4	ABB	2 days	£259.00
Rheumatology Profile 5 (Mono Arthritis)	RH5	AABB	3 days	£247.00
Rheumatology Profile 6 (Rheumatoid Plus)	RH6	B	2 days	£85.00
Rheumatology Profile 7 (Sjogren's Syndrome)	RH7	В	2 days	£85.00
Rickettsial Species Antibody Profile	RICK	B	7 days	£94.00
RPR (VDRL)	RPR	В	2 days	£32.00
Saccharomyces Cerevisiae Antibodies	ASCA	B	2 weeks	£112.00
Salivary Duct Antibodies	SAB	B	12 days	£50.00
Scleroderma Immunoblot	SCL1	B	5 days	£150.00
Sjogren's Syndrome	RH7	В	2 days	£85.00
Skin (Pemphigus/Pemphigoid) Autoantibodies	SKAB	B	2 days	£52.00
Skin Antibodies by Immunofluorescence	STSK	B	1 month	£199.00
Smooth Muscle Antibodies	ASM0	В	2 days	£43.00
Sperm Antibodies (Serum)	ASAB	В	5 days	£112.00
Steroid Cell Antibody	SCA	B	2 days	£78.00
Striated/Skeletal Muscle Antibody	STRA	B	2 days	£43.00
Strongyloides Antibodies	STGA	B	10 days	£96.00
Syphilis IgG/IgM	SERJ	В	4 hours	£52.00
TB Quantiferon®-TB Gold*	TBQ4	Special tubes or 🕕 1	3 days	£96.00
Testicular Autoantibodies	TAB	В	2 days	£64.00
Tetanus Antibody	TETA	В	5 days	£90.00
Thyroid Abs (incl. Thyroglobulin + Thyroid Peroxidase Abs)	THAB	В	1 day	£74.00
Thyroid Peroxidase Antibodies/Anti TPO	TPEX	В	1 day	£45.00
Tissue Transglutaminase IgA (Coeliac)** see page 77	TAA	В	2 days	£53.00
Tissue Transglutaminase IgG	TAAG	В	5 days	£63.00
Torch Screen	TORC	В	2 days	£161.00
Total Immune Function Evaluation	TIE	A or Chex+ (B) 5,10	7 days	£300.00
Total Immunoglobulin E	IGE	В	1 day	£48.00
TPPA	TPPA	В	2 days	£32.00
TSH-Receptor Antibodies	TSI	В	4 days	£134.00
Urinary Methyl Histamine	UHIT	RU (Frozen)	2 weeks	£104.00
Urticaria Test (Histamine Releasing)	CURT	В	10-14 days	£138.00
Vascular Endothelial Growth Factor	VEGF	В	2 months	£184.00
VDRL (RPR)	RPR	В	2 days	£32.00
Voltage Gated Calcium Channel Antibodies	CCAB	B	3 weeks	£218.00
Voltage Gated Potassium Channel Antibodies	VPCA	B	3 weeks	£159.00
Yellow Fever Antibodies	YELL	B 9,14	10 days	£145.00
Zika Antibodies IgM & IgG (see page 79)	ZKAB	В	5 days	£104.00

^{*} Please indicate clearly if samples have / have not been incubated prior to sending to the laboratory. If Lith Hep (green top) tube is used, please request as TBQ4 and ensure sample is received in the laboratory within 16 hours of sample taking.

^{**} If Tissue Transglutaminase (TAA) is regulated and is LOW (<0.1U/ml) total IgA will be reflexed. If total IgA is low (<0.1g/L) deamidated gliadin IgG will be reflexed. If Tissue Transglutaminase (TAA) is HIGH (>10 U/ml), endomysial IgA will be reflexed as confirmatory test.

H	ILA DQ2/DQ8	3		
TEST	CODE	SAMPLE REQS	TAT	PRICE
Coeliac Disease Profile 2	GSA2	(A) (B)	10 days	£290.00
Coeliac Disease – HLA DQ2/DQ8 Genotype	Q2Q8	A 9	10 days	£170.00
Coeliac/Gluten Sensitivity Profile	GSA	В	2 days	£137.00

Goellac Disease Profile 2	<u>′</u>	GSA2	C C	JU	iu days	£290.00
Coeliac Disease – HLA D	Q2/DQ8 Genoty	pe Q2Q8		A 9	10 days	£170.00
Coeliac/Gluten Sensitivity Profile		GSA	(В	2 days	£137.0
GLUTEN SENSITIVIT EVALUATION (COELIAC DISEASE ANTI		COELIAC DISEASE PRO	OFILE 2	GLUTI	EN ALLERGY P	PROFILE
Endomysial IgA Gliadin deamidated IgG Total IgA Tissue Transglutaminase	G To e (IgA) Ti	ndomysial IgA Iliadin deamidated IgG otal IgA issue Transglutaminas LA DQ2/DQ8		Endomys Gliadin A		ed IgG
£137.00	GSA £	290.00	GSA2	£300.	00	GLUT
B	A	B		AB	В	

To determine the new Coeliac Pathway, a TDL audit of more than 12,000 requests for coeliac testing was carried out and results assessed within UKAS current guidelines. The purpose of these new guidelines is to reduce the risk of missing IgA deficient patients. The new pathway covers for this by adding a total IgA to all low **Tissue Transglutaminase (TGG)** IgA results to check for an IgA deficiency. If an IgA deficiency is identified, a reflex deamidated gliadin IgG will be carried out to determine whether the patient is likely to have coeliac disease with an IgG antibody.

The changes are as follows:

- 1 Initial TTG IgA samples are received and tested
- 2 If TTG IgA is LOW <0.1 U/ml reflex testing for Total IgA will be undertaken
- 3 If Total IgA is LOW <0.1 g/L then reflex testing for Gliadin IgG test will be undertaken

If TTG IgA is HIGH (>/= 10 U/ml then reflex testing for Endomesial IgA will be undertaken as a confirmatory test.

Endomysial IgA

- This is no longer available as a stand-alone test. If requested the request will default to TTG IgA.
- However if TTG IgA is positive endomysial IgA will be carried out as a confirmatory test.
 This only needs to be done once in the patients history.

Endomysial IgG requests

No longer available as a single test request.

Deamidated gliadin IgA requests

• This is no longer available. If requested the request will default to TTG IgA.

Deamidated gliadin IgG requests

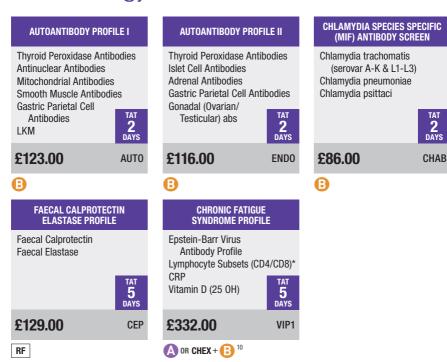
 This can be requested as an individual standalone test as well as being incorporated into the coeliac pathway. This may be useful when testing children's samples.

Appropriate clinical comments will be added to results automatically – as follows:

TTG IgA result U/ml	Total IgA result for new assay g/L	Deamidated gliadin IgG result U/ml	Comment
0.1 to 10	N/A	N/A	Coeliac disease unlikely (please note that if the patient has no dietary gluten results may appear false negative)
>/= 10	N/A	N/A	Suggestive of coeliac disease
<0.1	>/= 0.1	N/A	Coeliac disease unlikely (please note that if the patient has no dietary gluten, results may appear false negative)
<0.1	<0.1	>/=10	Consistent with coeliac disease in a patient with selective IgA deficiency
<0.1	<0.1	<7	Coeliac disease unlikely (please note that if the patient has no dietary gluten, results may appear false negative)
<0.1	<0.1	7-10	Result equivocal suggest referral to a gastroenterologist for consideration of duodenal biopsy

Coeliac Disease (CD) is an immune-mediated disease of the intestines that is triggered by the ingestion of gluten in genetically susceptible individuals. Gluten is the major protein component of wheat, rye, and barley. Genetic predisposition does play a key role in CD, and it is well known that CD is strongly associated with specific HLA class II genes known as HLA-DQ2 and HLA-DQ8. Approximately 95% of CD patients express HLA-DQ2, and the remaining patients are usually HLA-DQ8 positive. The negative predictive value for both tests is higher than 99%. However, the HLA-DQ2 allele is common and is carried by approximately 30% of Caucasian individuals. Thus, HLA-DQ2 or HLA-DQ8 is necessary for disease development but is not sufficient for disease development; its estimated risk effect is only 36-53%.

Note: History taking is important if a patient has been on a gluten-free diet for 6-12 months, approximately 80% will lose their antibody response. After 5 years this increases to >90%.



ZIKA VIRUS

HFEA guidelines recommend that travellers returning from high or moderate risk areas should consider the following guidance to minimise the risk of Zika virus transmission:

- A female traveller, symptomatic or asymptomatic, should not try to conceive naturally, donate gametes
 or proceed with fertility treatment for 28 days
- A male traveller, symptomatic or asymptomatic, should not try to conceive naturally, donate gametes
 or proceed with fertility treatment for 6 months

The European Centre for Disease Prevention and Control (ECDC) guidance outlines that men should not donate sperm for six months after sexual contact with a man who has been diagnosed with a Zika virus infection in the six months preceding the sexual contact, or after sexual contact with a woman who has been diagnosed with a Zika virus infection in the eight weeks preceding the sexual contact. Sperm donors who are known to have been infected with Zika virus should be deferred from donation for six months unless semen samples test negative for Zika virus RNA by nucleic acid testing (NAT). If sperm donation cannot be postponed, donors can be accepted if both serology (taken at least 4 weeks after leaving the Zika-affected country) and semen NAT tests for Zika are negative.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Zika Abs IgM and IgG – Antibody detection from 15 days	ZKAB	B	5 days	£104.00
Zika RT PCR – Window of detection from 1-7 days from onset of symptoms	ZIKA	B	5-7 days	£185.00
Zika RT PCR – Window of detection from 1-14 days from onset of symptoms	ZIKU	RU	5-7 days	£185.00
Zika RNA by PCR in Semen (see page 81)	ZIKS	Semen	5 days	£258.00

RHEUMATOLOGY RHEUMATOLOGY RHEUMATOLOGY PROFILE 3 PROFILE 5 **PROFILE 1** Rheumatoid Disease Mono Arthritis FBC FBC FRC **ESR ESR ESR** Uric Acid Uric Acid Uric Acid RF RF RF Anti CCP Antibodies (RF) Anti CCP Antibodies (RF) Anti CCP Antibodies (RF) C Reactive Protein Antinuclear Autoantibodies **Antinuclear Autoantibodies** C Reactive Protein C Reactive Protein HLA B27 TAT 2 DAYS TAT 3 DAYS 2 DAYS £116.00 RH £168.00RH3 £247.00 RH5 **A**B **A**B AABB RHEUMATOLOGY RHEUMATOLOGY RHEUMATOLOGY **PROFILE 2 PROFILE 4 PROFILE 6** General screen for Systematic Lupus Rheumatoid Factor Erythematosus **Connective Tissue Disorders** FBC FBC **ESR ESR** Anti CCP Antibodies (RF) Uric Acid Antinuclear Autoantibodies C Reactive Protein Antinuclear Autoantibodies Anti-dsDNA Anti-dsDNA Antibodies to Extractable Antibodies to Extractable Nuclear Antigens (ENA) 2 DAYS Anti nRNP Nuclear Antigens (ENA) Anti nRNP Anti Sm £85.00 RH6 Anti Sm Anti Ro (SS-A) Anti Ro (SS-A) Anti La (SS-B) ß Anti La (SS-B) Anti Jo-1 Anti Jo-1 Anti Scl 70 Anti Scl 70 Anti CENP RHEUMATOLOGY Anti CENP RF **PROFILE 7** Anti CCP Antibodies Sjogren's Syndrome Anti CCP Antibodies Anti Cardiolipin Autoantibodies HLA B27 Complement 3.4 Anti RO (SS-A) C Reactive Protein C Reactive Protein Anti La (SS-B) CFNP-B Salivary duct antibodies (SAB) C Reactive Protein 3 DAYS £344.00 £259.00 £85.00 RH4 RH2 RH7 AABB ABB ß

Patients with Irritable Bowel Syndrome (IBS) may benefit by testing for Calprotectin, see page 73 for details.

Tropical and travel related immunology

	TEST	CODE	SAMPLE REQS	TAT	PRICE
	Amoebic (E. histolytica) Antibodies	AFAT	В	2 days	£43.00
	Amoebic (E. histolytica) PCR	AMAG	RF	2 days	£44.00
	Bilharzia (Schistosome) Antibodies see page 82	BILH	B 14	10 days	£94.00
	Bilharzia (Schistosome) Antigen	SHAG	B	15 days	£78.00
	Bilharzia (Urine)	USCH	RU 14	8 hours	£53.00
	Borrelia Antibodies (Lyme Disease) IgG, IgM	BORR	B 9,14	2 days	£76.00
	Borrelia Antibodies (Lyme Disease) IgM	BORM	В	2 days	£59.00
	Borrelia Confirmation (Immunoblot)	BORC	B 9,14	10 days	£285.00
	Cryptosporidium Antigen Detection	CRPA	RF	1 day	£44.00
	Dengue Virus Serology	DENG	B 9,14	5 days	£100.00
	DVT/Pre-travel Screen (see profile)	DVT1	A A B ⁹	5 days	£232.00
	Echinococcus (Hydatid) Antibodies	EFAT	B 9,14	5 days	£57.00
CHANGE	Enteric Organism Rapid Detection	EORD	RF	2 days	£181.00
	Filaria (Lymphatic and Non-Lymphatic) Antibodies	FIFA	B 9,14	10 days	£93.00
	Insect/Worm/Ova/Cysts	FLEA	Send Specimen 9,14	5 days	£81.00
	Leishmania Antibodies	LEIS	В	5 days	£53.00
	Malarial Antibodies (Pl. falciparum)	MALA	B 9,14	5 days	£62.00
	Malarial Antibodies (species specific)	MALS	B 9,14	10 days	£80.00
	Post-Travel Screen 1	PTS	A A B G 14	10 days	£218.00
	Post-Travel Screen 2	PTS2	AABBB G ¹⁴	10 days	£411.00
	Pre-Travel Screen (DVT)	DVT1	A A B ⁹	5 days	£232.00
	Rickettsial Species Antibody Profile	RICK	В	7 days	£94.00
	Schistosome (Bilharzia) Antibodies	BILH	B 14	10 days	£94.00
	Schistosome Antigen	SHAG	В	15 days	£78.00
	Toxoplasma Antibodies (IgG+IgM)	TFAM	B 9	4 hours	£66.00
	Tropical Screen	TROP	B B 9,14	10 days	£186.00
	Zika Abs IgM and IgG – Antibody detection from 15 days	ZKAB	В	5 days	£104.00
	Zika RT PCR – Window of detection from 1-7 days from onset of symptoms	ZIKA	В	5-7 days	£185.00
	Zika RT PCR – Window of detection from 1-14 days from onset of symptoms	ZIKU	RU	5-7 days	£185.00
	Zika RNA by PCR in Semen	ZIKS	Semen	5 days	£258.00

COLLECTION INSTRUCTION FOR ZIKA RNA BY PCR IN SEMEN

- 2 fresh semen samples required produced within one week. Sperm quality/fertility is not being
 assessed so collection times do not require abstinence. There is a charge for each sample.
- · Small fresh volume (1ml) of semen needed in standard universal container.
- Please notify the laboratory (020 7307 7373) that semen is being sent to the laboratory for Zika Virus by PCR.
- Results will be reported individually as Detected/Not Detected.
- Patients can be asymptomatic/symptomatic. Travel history is not required.
- Please do not send samples to the laboratory on Fridays, Saturdays or Sundays.
- Do not freeze semen.

Tropical and travel related immunology

POST-TRAVEL SCREEN 1

(Prior to 6 weeks)

Haematology Profile

Biochemistry Profile

Schistosome Abs

Malarial Abs

TROPICAL SCREEN (from 6 weeks post-travel)

Amoebic Antibodies Schistosomal Antibodies (Bilharzia)

Echinococcus Antibodies (Hydatid) Leishmania Antibodies Malarial Antibodies (IFA)

Toxoplasma Antibodies IgG Toxoplasma

Antibodies IqM



£186.00









POST-TRAVEL SCREEN 2 (Prior to 6 weeks)

Haematology Profile **Biochemistry Profile** Schistosome Abs Malarial Abs Hep A IaM Abs Hep B s Aq Hep C Abs Hep C Aq

10 DAYS

£411.00 PTS2

A B B B G ¹⁴



ENTERIC ORGANISM RAPID DETECTION

HIV Duo

Detection of Bacterial, Viral and Parasitic Infection by Multiplex Real-Time PCR

10

DAYS

Bacteria and Bacterial Toxins

C. difficile Toxin A/B gene, Campylobacter spp., Enteroaggregative E.coli (EAEC), Enteroinvasive E.coli (EIEC)/Shigella, Enterotoxigenic E.coli (ETEC), Enteropathogenic E.coli (EPEC), Plesiomonas shigelloides, Salmonella, Shiga-toxin producing E.coli (STEC) stx1/stx2, Shiga-toxin producing E.coli (STEC) 0157:H7, Vibrio cholerae, Vibrio parahaemolyticus, Vibrio vulnificus, Yersinia enterocolitica

Viruses

Adenovirus 40/41, Astrovirus, Norovirus GI, Norovirus GII, Rotavirus A, Sapovirus (I, II, IV, V)

Cyclospora cayetanensis, Cryptosporidium spp., Entamoeba histolytica, Gardia lamblia

This does NOT include stool for m/c/s - this needs to be requested as a separate test. Please provide two samples if this is required.

CHANGE 2020

TAT 2 DAYS

£181.00

EORD

RF

DVT/PRE-TRAVEL SCREEN

FBC

B B 9,14

Factor II Prothrombin Gene Factor V Leiden Anticardiolipin Antibodies

5

DVT1

£232.00







Tropical and travel related immunology

Borrelia Antibodies (Lyme Disease) Borrelia burgdorferi

Presence of antibodies confirms infection with the Lyme Disease spiral bacterium (spirochaete) known as *Borrelia burgdorferi* by a bite from an infected tick. Patients bitten by an infected tick which is not removed within a day or so may develop Lyme disease. An expanding rash would usually appear at the site of the bite within 3 to 30 days in a large proportion of those infected. The rash spreads and often develops a 'bulls-eye' appearance. Many also develop flu-like symptoms with aching joints and muscles. The disease can later affect the nervous system, joints and other body systems.

Borrelia Antibodies IgM (BORM):

detectable after 2-3 weeks increasing up to 6 weeks.

Borrelia Antibodies IgG/IgM (BORR): detectable after several weeks increasing to maximum at

4-6 months and may remain at high levels for many years.

Borrelia Confirmation (Immunoblot) (BORC):

The ELISA test is sensitive but has a well-documented high false positive rate giving positive results in cases of glandular fever, rheumatoid arthritis and other autoimmune conditions. If the ELISA is positive testing by Immunoblot confirms a diagnosis by Lyme disease. IgM and IgG antibodies are tested separately. It is essential that details of the IgG +IgM Elisa are provided for this test.

```
SPECIAL PATHOLOGY
Borrelia ab's Immunoblot
Borrelia antibodies- Immunoblot:
B. Burfdorferri IgG/IgM [C6 EIA]
                                                                                     POSITIVE
Borrelia IgG Lineblot [virastripe]
IgG to Borrelia P83 antigen
                                                                                     Negative
IgG to Borrelia P58 antigen
IgG to Borrelia P43 antigen
                                                                                     Negative
                                                                                     Negative
IgG to Borrelia P39 antigen
                                                                                     Negative
IgG to Borrelia P39 antigen
IgG to Borrelia P30 antigen
IgG to Borrelia OspC antigen
IgG to Borrelia p21 antigen
IgG to Borrelia Osp17 antigen
                                                                                     Negative
                                                                                     Negative
                                                                                     Negative
IgG to Borrelia DBPA antigen
IgG to Borrelia P14 antigen
                                                                                     Negative
                                                                                     Negative
IgG to Borrelia VIsE antigen Negative
IgG to BORRELIA ANTIGENS INTERPRETATION Negative
IgG to Borrelia IgM Lineblot [virastripe]
IgM to P41 antigen
                                                                                     Negative
IgM to P41 antigen Negative
IgM to P39 antigen Negative
IgM to Borrelia OSpC antigen POSITIVE
IgM to Borrelia OSpI7 antigen Negative
IgM to Borrelia V1SE antigen POSITIVE
IgM to BORRELIA ANTIGENS INTERPRETATION POSITIVE
Send Imm Result & Clin detail POSITIVE
Report Comments:
The C6 result is very weak but the results could be consistent
with recent/current Lyme. Treat erythema migrans on clinical suspicion. If recent infection is suspected, consider sending follow up serology at 2 or more weeks after the original sample, although prompt antibiotic treatment may abrogate the antibody response. If chronic infection was suspected, no further action is needed. If still clinically concerned please contact us to
discuss
```

IMMUNE STATUS						
TEST	CODE	SAMPLE REQS	TAT	PRICE		
Hepatitis A Immunity (IgG/IgM)	HAIM	B	4 hours	£43.00		
Hepatitis B Immunity	HBIM	В	4 hours	£43.00		
Measles Antibodies (IgG) Immunity	MEAS	В	1 day	£61.00		
Measles Antibodies (IgM)	MEAM	B 9	2 days	£61.00		
Measles, Mumps, Rubella (MMR)	MMR	В	1 day	£131.00		
Mumps Antibodies (IgG)	MUMP	В	1 day	£61.00		
Mumps Antibodies (IgM)	MUMM	В	1 day	£61.00		
Pertussis (Whooping Cough) Antibodies	PERS	В	5 days	£103.00		
Pneumococcal Antibody Screen	PNEU	В	7 days	£91.00		
Polio Virus 1, 2, 3 Antibodies	P0L0	B 9	15 days	£272.00		
Rabies Antibody	RABI	В	10 days	£130.00		
Rubella Antibody (IgG)	RUBE	В	4 hours	£45.00		
Rubella Antibody (IgM)	RUBM	В	4 hours	£64.00		
Rubella PCR	RUBP	Amniotic Fluid	5 days	£146.00		
Tetanus Antibody	TETA	В	5 days	£90.00		
Varicella Zoster Antibodies (IgG)	VZ0S	В	1 day	£64.00		
Varicella Zoster Antibodies (IgM)	VZOM	В	1 day	£64.00		

Hepatitis B Immunity/Vaccination

Anti HBs					
less than 10 mIU/mI	Non-immune to Hepatitis B				
10-50 mIU/mI	borderline – Booster indicated				
50-100 mIU/mI	low level immunity – Booster suggested				
100 and over	Immune to Hepatitis B				

NEEDLE STICK INJURY PRO	FILE
(Donor – Not recipient) Hep Bs.Ag Hep C Abs Hep C Ag (early detection) HIV 1+2 Abs/p24 Antigen Serum saved for 2 years	TAT 4 HOURS
£155.00	NSI



HEPATITIS VIRAL LOAD SAMPLE INSTRUCTIONS

Whole blood can be stored at 2°C to 30°C and must be centrifuged within 24 hours of specimen collection. Separate the plasma or serum from the pelleted red blood cells following the manufacturer's instructions for the tube used. Plasma or serum can be tested on the Panther system in the primary tube or transferred to a secondary Aptima Specimen Aliquot Tube (SAT) for testing on the Panther system. If not tested immediately, plasma and serum can be stored in accordance with the specifications below. If transferred to the SAT, plasma may be frozen at -20°C or -70°C, and serum may be frozen at -20°C. Do not freeze specimens in EDTA, ACD, or serum primary collection tubes.

After centrifugation: In the primary collection tube at 2°C to 8°C for up to 3 days

In the Aliquoted Tubes: at 2°C to 8°C for up to 5 days
In the Aliquoted Tubes: at -20°C or -70°C for up to 90 days

HEPATITIS TESTING					
TEST	CODE	SAMPLE REQS	TAT	PRICE	
Hepatitis (Acute) Screen	AHSC	B	4 hours	£149.00	
Hepatitis A (IgM)	HAVM	В	4 hours	£41.00	
Hepatitis A Immunity (IgG/IgM)	HAIM	В	4 hours	£43.00	
Hepatitis A Profile	HEPA	В	4 hours	£69.00	
Hepatitis A RNA by PCR	HAVR	A or B	3 weeks	£198.00	
Hepatitis A, B & C Profile	ABC	В	4 hours	£245.00	
Hepatitis B 'e' Antigen and Antibody	HEPE	В	4 hours	£100.00	
Hepatitis B (PCR) Genotype	BGEN	A	7 days	£456.00	
Hepatitis B Core Antibody – IgM	HBCM	В	4 hours	£46.00	
Hepatitis B Core Antibody – Total	HBC	В	4 hours	£46.00	
Hepatitis B DNA (Viral load) – see page 85	DNAB	A	5 days	£232.00	
Hepatitis B Immunity	HBIM	В	4 hours	£43.00	
Hepatitis B Profile	HEPB	В	4 hours	£111.00	
Hepatitis B Resistant Mutation	HBRM	A or B	7 days	£293.00	
Hepatitis B Surface Antigen	AUAG	В	4 hours	£42.00	
Hepatitis C Abs Confirmation (RIBA)	RIBA	В	5 days	£152.00	
Hepatitis C Antibodies	HEPC	В	4 hours	£85.00	
Hepatitis C Antigen (Early detection)	HCAG	В	4 hours	£52.00	
Hepatitis C Genotype	CGEN	A	5 days	£466.00	
Hepatitis C Quantification (Viral Load) – see page 85	QPCR	A or B	5 days	£202.00	
Hepatitis Delta Antibody	HEPD	В	5 days	£98.00	
Hepatitis Delta Antigen	HDAG	В	5 days	£126.00	
Hepatitis Delta RNA	DRNA	(Frozen plasma)	5 days	£232.00	
Hepatitis E IgG/IgM	HBE	В	5 days	£116.00	
Hepatitis E (PCR)	EHEP	A	2 weeks	£186.00	
Hepatitis G (PCR)	HEPG	(Frozen plasma)	2 weeks	£173.00	

Hepatitis E (PCR)		EHE	P (A	2 weeks	£186.0
Hepatitis G (PCR)		HEF	G (Froz	en plasma)	2 weeks	£173.0
HEPATITIS B profile		ACUTE VI HEPATITIS S		ı	HEPATITIS A, B & C PROF	
Hep B Surface Antigen Hep B Surface Antibodi Hep B Core IgG/IgM	es	Hepatitis A IgM Ab Hepatitis B Surface Hepatitis C Abs Hepatitis C Ag				
	TAT 4 HOURS		TAT 4 HOURS			TAT 4 HOURS
£111.00	HEPB	£149.00	AHSC	£245.	00	ABO
B		B		B		

All virology samples are processed as per manufacturers sample requirements and guidelines.

Hepatitis virus is named in order of their discovery A, B, C, D, E and G.

Hepatitis A

Hepatitis A is spread through food and water that have been contaminated with the virus derived from human faeces and urine. Hepatitis is an acute infection, not a chronic form of the disease.

HBV Assays

Hepatitis B surface antigen (HBsAg) (AUAG)

A protein on the surface of HBV; it can be detected in high levels in serum during acute or chronic HBV infection. The presence of HBsAg indicates that the person is infectious. The body normally produces antibodies to HBsAg as part of the normal immune response to infection. HBsAg is the antigen used to make Hepatitis B vaccine.

Hepatitis B surface antibody (anti-HBs) (HBIM)

The presence of anti-HBs is generally interpreted as indicating recovery and immunity from HBV infection. Anti-HBs also develops in a person who has been successfully vaccinated against Hepatitis B.

Total Hepatitis B core antibody (anti-HBc) (HBC)

Appears at the onset of symptoms in acute Hepatitis B and persists for life. The presence of anti-HBc indicates previous or ongoing infection with HBV in an undefined time frame.

IgM antibody to Hepatitis B core antigen (IgM anti-HBc) (HBCM)

Positivity indicates recent infection with HBV (≤ 6 months). Its presence indicates acute infection.

Hepatitis B e antigen and antibody (HEPE)

Hepatitis B e antigen (HbeAg): A secreted product of the nucleocapsid gene of HBV that is found in serum during acute and chronic Hepatitis B. Its presence indicates that the virus is replicating and the infected person has high levels of HBV.

Hepatitis B e antibody (HBeAb or anti-HBe): Produced by the immune system temporarily during acute HBV infection or consistently during or after a burst in viral replication. Spontaneous conversion from e antigen to e antibody (a change known as seroconversion) is a predictor of long-term clearance of HBV in patients undergoing antiviral therapy and indicates lower levels of HBV.

HBV Viral Load (DNAB)

This assay measures the concentration of Hepatitis B viral DNA in patient serum. The test enables the viral load at the beginning of treatment to be established and, thereafter, monitored to indicate treatment success.

HBV Genotyping (BGEN)

Identifies the hepatitis B genotype (A to H) in a patient's serum/plasma. This is critical for determining treatment and monitoring response.

HBV Drug Resistance Detection (HBRM)

Detects hepatitis B virus wild-type and drug-induced mutations, associated with lamivudine, entecavir and tenofovir.

HCV Assays

HCV Antibody (HEPC)

The test indicates exposure to virus but does not necessarily signify current infection. The HCV antibody test may therefore be used to screen patients for possible HCV infection to detect the presence of antibodies to the virus, indicating exposure to HCV. This test cannot tell if the viral infection is active, only that you were exposed to the virus in the past.

HCV Antigen (HCAG)

HVC Antigen is detectable well before the occurrence of antibodies against HCV. When virus is present, but antibodies are not detectable, a negative antibody test does not rule out HCV infection. Active HCV infection, either acute or chronic is characterised by the presence of HCV Antigen. This is analogous to HepB sAg (AUAG) in active HBV Infection.

HCV Viral Load (QPCR)

Measures the concentration of hepatitis C viral RNA in patient serum. This state-of-the-art assay enables the viral load at the beginning of treatment to be established and, thereafter, monitored to indicate treatment success.

HCV Genotype for Treatment (CGEN)

Determines the HCV genotype in a patient's serum. The result is presented as being of either Genotype [1, 5, 6], [4] or [2, 3]. This grouping reflects required treatment duration of the different genotypes.

HCV Drug Resistance

Detects hepatitis C wild-type or drug-induced mutations associated with resistance to HCV drugs including NS5A inhibitors. NS5B inhibitors or NS3 inhibitors.

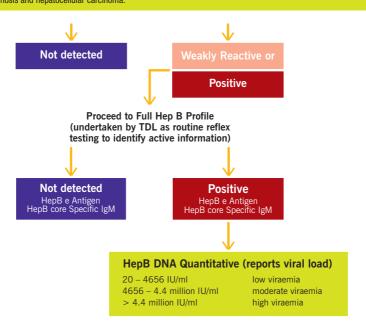
Hepatitis B Surface Antigen

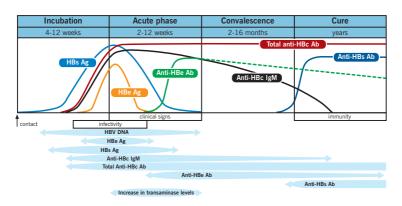
HEPATITIS B

- · Transmission:
 - Sexual, parenteral, perinatal, direct contact between individuals.
- Clinical Signs:
 - Asymptomatic in 90% of cases.
- Cure: 95% of cases (adults).
- Complications:
 Cirrhosis and hepatocellular carcinoma.

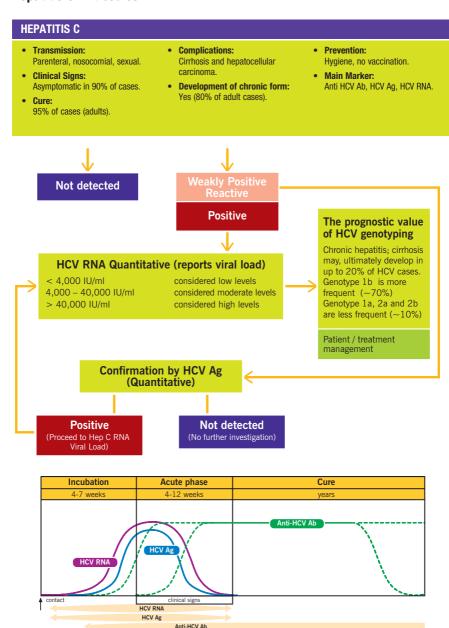
- Development of chronic form: Yes (5% of adult cases).
- Prevention:
- Vaccination ++++; specific IgG.
- · Main Marker:

HBS Ag, anti HBc IgM, total anti HBc Ab, Anti-HBs Ab, HBe Ag, Anti-HBe Ab, HBV DNA.





Hepatitis C Antibodies



Increase in transaminase levels

HIV TESTING						
TEST	CODE	SAMPLE REQS	TAT	PRICE		
HIV Screening: HIV1& 2 Abs/p24 Ag (4th Gen)	HDU0	В	4 hours	£46.00		
HIV Confirmation of Positive Screens (Using 3 methodologies)	HIVC	В	1 day	£112.00		
HIV Rapid RNA HIV-1 QUALITATIVE	LHIV	A	4 hours	£149.00		
HIV Rapid RNA HIV-1 QUANTITATIVE	RHIV	A	4 hours	£149.00		
HIV/HBV/HCV Screen (HIV post exposure at 10 days)	STDX	A 10mls or 2x4mls	3 days	£162.00		
HTLV 1& 2 Abs. (Human T Lymphotropic Virus Type I-II)	HTLV	B	8 hours	£53.00		
HTLV by PCR	HTLP	Whole blood	21 days	£288.00		
HIV 1 Proviral DNA	HIVP	Whole blood	7 days	£350.00		

TDL TINY™ SELF-COLLECTION HIV TESTS (please refer to page 142 for information about self-collection tests)					
TEST	CODE	SAMPLE REQS	TAT	PRICE	
4th Generation HIV1& 2 Abs/p24 Ag (28 days post-contact)*	THIV	BTiny™	4 hours	£46.00	

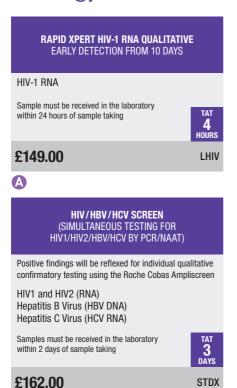
^{*}Reactive 4th & 5th Gen HIV Results require confirmation with a follow up venous blood sample.

HIV POSITIVE PATIENT MONITORING					
TEST	CODE	SAMPLE REQS	TAT	PRICE	
HIV-1 RNA Viral Load by PCR	HIV1	(2x6ml whole blood)	3 days	£149.00	
HIV-2 RNA by PCR	HIV2	A	21 days	£288.00	
HIV Rapid RNA HIV-1 QUANTITATIVE	RHIV	A	4 hours	£149.00	
HIV Therapeutic Drug Monitoring	TDM	J	21 days	£225.00	
CD3/CD4/CD8	LYSS	(A) 10/Chex	1 day	£208.00	

HIV-1 GENOTYPIC RESISTANCE TESTING					
TEST	CODE	SAMPLE REQS	TAT	PRICE	
HIV-1 Genotypic Resistance (RT & Protease)	HIVD	A (2x6ml whole blood)	10 days	£551.00	
HIV-1 Genotypic Resistance (Integrase)	INTE	A (2x6ml whole blood)	10 days	£551.00	
HIV-1 Tropism	TRPM	(2x6ml whole blood)	28 days	£845.00	
HLA B*57:01	HL57	A 9	10 days	£273.00	

HLA-B*57:01 should be tested before starting patients on an Abacavir (ABC) containing regimen to reduce the risk of hypersensitivity reaction. HLA-B*57:01-positive patients should not be prescribed ABC and a positive status should be recorded as an ABC allergy in the patient's medical record.

A 10mls or 2x4mls



RAPID XPERT HIV-1 RNA VIRAL LOAD
RAPID TESTING FOR HIV-POSITIVE
PATIENT PROGNOSIS AND RESPONSE TO
ANTIRETROVIRAL THERAPY

HIV-1 RNA VIRAL LOAD (40 copies/ml)

Sample must be received in the laboratory within 24 hours of sample taking

TAT 4 HOURS

£149.00





TEST	CODE	SAMPLE REQS	TAT	PRICE
Adenovirus by PCR	ADV	PCR/VS/SC	7 days	£228.00
Arbovirus Antibodies/Abs	ARB0	B 9,14	3 weeks	£156.00
Ascariasis Serology	ASC	B	5 days	£70.00
Aspergillus Precipitins	ASPP	В	5 days	£103.00
Babesia Antibodies	BABE	В	3 weeks	£88.00
Babesia Parasites	BABP	A 4	7 days	£119.00
Bancroftia/Oncerciasis/Filarial Antibodies	TFIF	B 14	2 weeks	£138.00
Bartonella (IgG/IgM)	CAT	В	5 days	£169.00
BK Polyoma Virus by PCR	BKPV	(A)/(B)/RU	5 days	£191.00
Cat Scratch Fever (Bartonella IgG+IgM)	CAT	В	5 days	£169.00
Chagas Disease Serology (S.American Trypanosomiasis) T. Cruzi	CHGA	B 9,14	10 days	£122.00
Chikungunya Virus Abs	CHIK	B 9,14	10 days	£156.00
CMV DNA (by PCR)	CMVP	A	5 days	£212.00
CMV DNA by PCR (Semen)	SCVM	Semen	7 days	£212.00
CMV DNA by PCR (Urine)	CMVU	RU	5 days	£212.00
CMV Resistance	CMVR	A A (2 x 6mls)	21 days	£536.00
Coccidioidomycosis Antibodies	COCC	В	2 weeks	£132.00
Corona Virus PCR	CORV	PCR, BAL, SC, NPA	1 week	£106.00
Coxsackie Antibodies (IgM)	COXM	В	10 days	£102.00
CSF Screen by PCR	VPCR	CSF	2 days	£103.00
Cysticercosis (Taenia Solium) Serology	CYST	B	5 days	£80.00
Cytomegalovirus (CMV-DNA) Amnio	CMVD	AF	5 days	£212.00
Cytomegalovirus (IgG/IgM) Antibodies	CMV	B	4 hours	£68.00
Cytomegalovirus (PCR) Urine	CMVU	RU	5 days	£212.00
Cytomegalovirus Avidity	CMAV	В	10 days	£105.00
Cytomegalovirus DNA (PCR)	CMVP	A	5 days	£212.00
Cytomegalovirus IgM	CMVM	В	4 hours	£68.00
Dengue Fever PCR	DPCR	A or B 9,14	2 weeks	£231.00
Diphtheria Antibodies	DIPH	В	5 days	£70.00
Ehrlichiosis Antibodies	EHRL	B 9,14	10 days	£97.00
Epstein-Barr Virus Antibodies IgG/IgM	EBVA	В	2 days	£128.00
Giardia Serology	GIAR	В	5 days	£80.00
Hantavirus Serology	HANV	B 9	10 days	£111.00
Herpes Simplex I/II Antibody Profile (IgG)	HERP	В	2 days	£64.00
Herpes Simplex I/II by PCR (Swab)	HERS	PCR	5 days	£75.00
Herpes Simplex I/II by PCR (Urine)	HERD	FCRU/TPV	4 days	£75.00
Herpes Simplex I/II IgM	HERM	В	2 days	£64.00
HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure)	STDX	(A) 10mls or 2x4mls	3 days	£162.00
Human Herpes Virus – 6 by PCR	HHV6	A	5 days	£147.00
Human Herpes Virus – 8 (IgG)	HHV8	В	10 days	£83.00
Human Herpes Virus – 8 by PCR	HV8D	A	5 days	£166.00
Human Parvovirus B19 – DNA	PCRP	A	2 weeks	£173.00

TEST	CODE	SAMPLE REQS	TAT	PRICE
JC Polyoma Virus by PCR	JCPV	△/B/CSF	5 days	£191.00
Listeria Antibody	LIST	В	1 week	£51.00
Measles Antibodies (IgG) Immunity	MEAS	B	1 day	£61.00
Measles Antibodies (IgM)	MEAM	B 9	2 days	£61.00
Measles PCR	MEAP	Buccal swab	48 hours	£113.00
MERS Coronavirus Test	MERS	J	1 day	£150.00
Mumps Antibodies (IgM)	MUMM	B	1 day	£61.00
Mycoplasma pneumoniae IgM and IgG	MYCO	В	2 days	£57.00
Mycoplasma species – DNA	MPCR	A	5 days	£183.00
Neurological Viral Screen	NVIR	BB	2 days	£153.00
Parvovirus Antibodies (IgM)	PARV	В	2 days	£76.00
Parvovirus DNA by PCR	PCRP	A	2 weeks	£173.00
Parvovirus IgG Antibodies	PARG	B	2 days	£68.00
Parvovirus IgG/IgM Abs	PARP	В	2 days	£78.00
Pneumonia (Atypical) Screen	APS	В	2 days	£116.00
Q Fever (C Burnetti) Antibodies	QFEV	B 9	10 days	£58.00
Rotavirus in Stool by PCR	ROTA	RF	1 day	£79.00
Rubella Antibody (IgG)	RUBE	B	4 hours	£45.00
Rubella Antibody (IgM)	RUBM	В	4 hours	£64.00
Rubella Avidity	RUAV	B	1 week	£122.00
Sleeping Sickness Serology (African Trypanosomiasis)	TRYP	B 9	10 days	£169.00
Torch Screen	TORC	В	2 days	£161.00
Toxocara Antibodies (IgG)	TFAT	B 9	5 days	£66.00
Toxoplasma Antibodies (IgG+IgM)	TFAM	B 9	4 hours	£66.00
Toxoplasma Antibody Full Evaluation (IgM, Dye Test, IgG Avidity)	TDYE	B 9	10 days	£121.00
Toxoplasma by PCR	TXAG	A	5 days	£139.00
Trichinella Serology	TRIC	В	5 days	£83.00
Trypanosome (Chagas) Antibodies	CHGA	B 9,14	10 days	£122.00
Tularaemia Antibodies	TULA	B 14	5 days	£86.00
Varicella Zoster Antibodies (IgG)	VZ0S	В	1 day	£64.00
Varicella Zoster Antibodies (IgM)	VZOM	B	1 day	£64.00
Varicella Zoster – DNA	VZPC	A	5 days	£231.00
Viral Antibody Screen	VIRA	BB	2 days	£153.00
Viral Eye by PCR	VPE	PCR	3 days	£103.00
Viral Respiratory RNA Screen by PCR	VPR	PCR or as specified	2 days	£124.00
Viral Skin/Mucosa by PCR	VPSK	PCR	2 days	£93.00
West Nile Virus Abs	WNV	B	2 weeks	£198.00
Whooping Cough (Pertussis) Antibodies	PERS	B	5 days	£103.00
Whooping Cough (Pertussis) by PCR	PERP	Prenasal (posterior nasopharynx) swab	5 days	£141.00
Yersinia Antibodies	YERS	В	4 days	£147.00
Zika Antibodies IgG & IgM	ZKAB	В	5 days	£104.00
Zika RNA by PCR in Semen	ZIKS	Semen	5 days	£258.00

VIROLOGY BY BLOOD

VIRAL ANTIBODY SCREEN

Measles IaG Measles IqM Mumps IgG Mumps IgM Mycoplasma pneumonia CMV HSV₁ HSV 2

TAT 2 DAYS

VIRA

£153.00

BB

NEUROLOGICAL VIRAL SCREEN

Measles IaG Measles IqM Mumps laG Mumps IqM CMV IaG HSV 1/2 IgG HSV 1/2 IgM VZV IqG

TAT 2 DAYS

£153.00



TORCH SCREEN

Toxoplasma Antibodies (IgG, IgM) Rubella Antibody (IgG, IgM) CMV Antibody (IgG, IgM) TAT Herpes Antibody 2 DAYS (HSV1/HSV2 IaG)

£161.00

ß

ATYPICAL PNEUMONIA SCREEN

Mycoplasma pneumonia Abs Chlamydia pneumoniae (MIF) Legionella 2 DAYS pneumophila (IF)

£116.00

APS

TORC

ß

NVIR

VIROLOGY BY PCR

VIRAL RESPIRATORY RNA SCREEN BY PCR

Throat swabs. nasopharyngeal aspirates

Adenovirus

Parainfluenza 1, 2, 3, 4

Influenza A & B

Coronavirus Parechovirus

Enterovirus

Rhinovirus

Respiratory Syncytial virus A & B Human metapneumovirus

2 DAYS

£124.00 **VPR**

PCR or as specified on the form

VIRAL SKIN/MUCOSA BY PCR

If chicken pox or shingles suspected, please indicate clearly on request form

Herpes Simplex virus Varicella Zoster virus

TAT 2 DAYS

£93.00 **VPSK**

PCR

VIRAL EYE BY PCR

Herpes Simplex virus Varicella Zoster virus Adenovirus

£103.00

VPE

TAT 3 DAYS

PCR

CSF SCREEN BY PCR

Herpes Simplex virus Varicella Zoster virus Enterovirus

2 DAYS

£103.00

VPCR

CSF

Tumour markers/sites

TEST	CODE	SAMPLE REQS	TAT	PRICE
Alpha Feto Protein	AFP	B	4 hours	£48.00
Beta HCG (Oncology)	HCGQ	B	4 hours	£48.00
Breast Cancer NGS Panel – full sequencing across 14 genes + deletions/duplications. Requires patient informed consent	GENE	A A 9,11	4 weeks	£900.00
CA 15-3	C153	В	4 hours	£102.00
CA 19-9	C199	В	4 hours	£102.00
CA 50	CA50	В	5 days	£127.00
CA 72-4	C724	В	5 days	£110.00
CA 125	C125	В	4 hours	£102.00
Carcino Embryonic Antigen	CEA	В	4 hours	£64.00
Complex PSA (Prostate Specific Ag)	CPSA	В	3 days	£64.00
Cyfra 21-1	CY21	В	4 days	£161.00
Early CDT-Lung	CDTL	B	7 days	£164.00
HE4 + ROMA	HE4	B	1 day	£112.00
Neurone Specific Enolase	NSE	B	5 days	£149.00
NMP22 (Bladder tumour)	NMP	\mathbf{J}^1	4 days	£75.00
Osteocalcin	0ST	(Frozen) ⁴	4 days	£175.00
Prostate Profile (Total & Free PSA)	PR2	B	4 hours	£78.00
Prostate Specific Antigen (Total)*	PSPA	B	4 hours	£57.00
Pyruvate Kinase (M2-PK)	M2PK	A	5 days	£80.00
Pyruvate Kinase (M2-PK)	M2ST	RF ⁴	5 days	£80.00
S100 Malignant Melanoma	S100	B	4 days	£111.00
Squamous Cell Carcinoma	SCC	В	4 days	£171.00
Testicular Tumour Profile	TTP	В	4 hours	£108.00

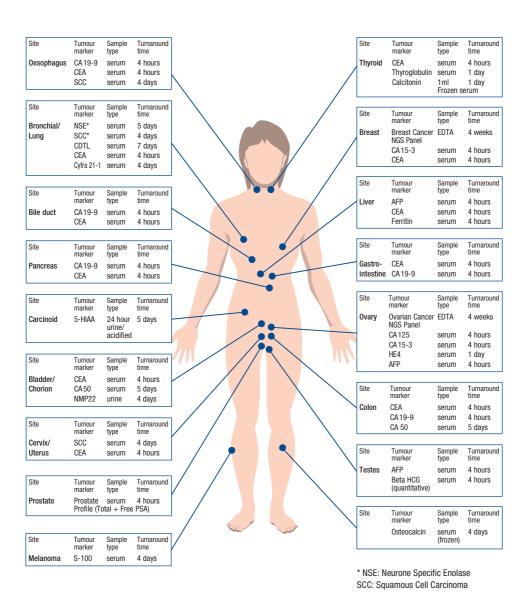
^{*} Results that fall between 4.00 ug/L and 10.00 ug/L will automatically reflex to a Free PSA with a calculated ratio. The ratio of Free to Total PSA may help discriminate between prostate cancer and benign prostatic hyperplasia.

TUMOUR MARKERS/SITES				
AFP: Liver, Testes	Cyfra 21-1: Oesophagus,			
BHCG: Testes	Lung, Bladder			
BRCA1/2: Breast	HE4: Ovary			
CA 125 : Ovary	NMP22: Bladder			
CA 15-3 : Breast	NSE: Lung, Brain, Thyroid			
CA 19-9: Stomach, Colorectal,	PSA: Prostate			
Gastrointestinal, Pancreas	S100: Melanoma			
CA 50: Bladder, Colon	SCC: Oesophagus, Bronchus,			
CDTL: Lung	Lung, Cervix			
CEA: Stomach, Liver, Breast,				

Ovary, Gastrointestinal, Lung

HE4 Earlier Detection of Ovarian Tu	mour
HE4/CA125/ROMA Calculated Algorithm for pre and post menopausal risk of malignant disease	TAT 1 DAY
£112.00	HE4
В	
PROSTATE PROFILE Total and Free PSA	
Total PSA Free PSA Calculated Ratio	TAT 4 HOURS
£78.00	PR2
B	

Tumour markers/sites



TDL Genetics is a consultant-led service which is able to provide extensive expertise in the testing, diagnosis and genetic counselling of inherited disorders. Genetic tests are performed on DNA



for molecular genetic analysis and on whole chromosomes for cytogenetic analysis. Some tests are part of profiles that can be linked with assays from other TDL disciplines, such as biochemistry and haematology, to give more comprehensive results for the patient.

Genetic tests are available for:

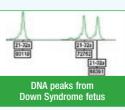
- Prenatal diagnosis and rapid trisomy screening by Amnio-PCR
- · Carrier screening
- Newborn chromosome analysis
- Confirmation of symptomatic individuals and pre-symptomatic testing
- · Genetic variation that influences risk of disease
- Identity studies (paternity, zygosity, tissue typing)
- Fertility studies
- · Products of conception

Genetic testing is sometimes complex and tests will vary in their ability to detect mutations or to detect all patients who have, or will develop, the disease. Some tests are diagnostic for a condition, others are indicative or are associated with an altered risk for a condition. Results can affect the lives of individuals and have implications for their family, for insurance and employment. Where testing will predict the inheritance of a disease in a healthy person, counselling and consent are mandatory. For these tests, please complete the Genetic Request form at the back of the guide (including informed consent). Our service provides result interpretation and risk assessment to patients and their family members. Genetic counselling can be arranged by TDL's Consultant Clinical Geneticist.

can be arranged by TDL's Consultant Clinical Geneticist.

To meet the increasing range and complexity of genetic testing we have developed an excellent collaboration with other specialist laboratories.

DNA peaks from normal fetus



Tests marked GENE are sent to these laboratories within our network and have a fixed price. GENE panel composition may change throughout the year to reflect new and improved developments. Turnaround times may be longer if follow-up studies are required.

Specimen Receipt at The Doctors Laboratory is 24 hours a day. Specifically, TDL Genetics results service is available Monday to Friday 8.30 am - 5.30 pm with the laboratory also open for processing of samples on Saturdays from 9.00 am - 1.00 pm.

Test codes, sample requirement codes, turnaround times, and prices may be found on the following pages. All samples must be collected in the specified containers, as shown in the key at the back of this guide. Samples should be fresh and in good condition (e.g. not clotted if EDTA or heparinised whole blood is required) otherwise testing may be adversely affected and another sample may be required. Small DNA samples are stored routinely for one year, larger DNA samples can be stored by special arrangement.

Instructions for transportation, sample labelling, and the completion of request forms can be found on the reverse of the TDL Genetics Request Form.

The locations of the Laboratory and Patient Reception are indicated on the map on the reverse of each request form. If you do not find the test you require in this directory or need more information and advice please telephone the laboratory on 020 7307 7409.

Sending samples to the laboratory

Transport arrangements

All specimens should be kept at room temperature and despatched to the laboratory as soon as possible, by TDL/international courier, first class post, guaranteed next day delivery or a reliable alternative.

If a delay in sending the sample is unavoidable, please refrigerate overnight – DO NOT FREEZE. Specimens must not be allowed to come in contact with request forms, but should be kept separate by using dual – pocketed plastic bags. Specimens for inland postage must be packed in a rigid crush-proof container according to current Post Office guidelines. IATA guidelines should be followed for international transport (Advice is available from the laboratory).

Labelling of high risk samples

Please note that it is the responsibility of the referring clinician to ensure that high-risk samples are clearly identified to reduce the risk of infection to staff and others.

Patient details on request forms and samples

Request and consent forms are available directly from TDL Genetics.

In order to avoid unnecessary time spent in obtaining details please provide the following information:

Information for request forms:

- · Surname, forename (not initials) and date of birth
- Full name (not initials) and location of referring clinician
- Full address of clinician to whom the result should be sent
- Legible clinical summary, including details of any relevant family history
- · Address for billing Doctor, patient or other
- · Gestation on prenatal samples
- · Hospital or reference number
- · Test required

Essential information on sample container label:

- · Patients surname and forename (not initials)
- · Date of birth
- · Hospital number or reference number

Consent forms

Consent forms (at the back of this guide) are available for genetic testing. As genetic testing may have implications for other family members and is regarded as personal data, it is recommended that written consent is obtained wherever possible. In cases with predictive testing for severe disorders, as indicated in the laboratory guide, it is essential that patients should also be offered formal genetic counselling. It is the responsibility of the referring clinician to obtain appropriate consent from the patient.

Unlabelled samples

Unlabelled samples will ONLY be processed if the individual who took the sample can confirm the sample is from the patient in question. In the absence of this assurance, the sample will be discarded and a repeat required.

Genetic Testing

THE IMPORTANCE OF CLINICAL DETAILS

Clinical details are very important when providing genetic analysis. The more clinical information that is available (e.g. details of ultrasound information, phenotypic features or family history) the better the service we can provide. Failure to provide this information for cytogenetic studies may result in an inaccurate analysis.

MOLECULAR GENETICS

Clinical details can be extremely important for clinical interpretation of a molecular genetic test.

For example, the clinical comments accompanying a cystic fibrosis screening report will vary depending on whether the patient is a potential gamete donor or a person exhibiting a cystic fibrosis phenotype.

It may also be crucial, where a mutation has already been shown to be segregating in a family, to be provided with information concerning the mutation and a family pedigree to ensure the correct analysis is performed and reliable risk figures calculated.

CYTOGENETICS

Cytogenetic analysis is performed according to the Professional Guidelines for the Association of Clinical Genetic Science and the recommendations provided are dependent on the clinical indications given for each case.

Clinical details inform the investigation at all stages:

- Prior to analysis, clinical details may indicate, for example, that procedures such as chromosome breakage or leukaemic studies are required, which must be referred to a specialist centre.
- During analysis they may indicate that extra cells should be screened to investigate the possibility of
 mosaicism, for example in a diagnosis of suspected Turner syndrome, or that particular chromosomes must
 be targeted for high-resolution study, for example chromosome 4 in suspected Wolf-Hirschhorn syndrome.
- When the analysis has been completed they may help to provide an accurate interpretation of the findings and in some instances prompt further investigations, for example FISH or molecular genetic studies.

When clinical details are not available a routine analysis will be performed and a conditional report issued.

SAMPLE STABILITY

Molecular Genetic Samples

Whole blood collected in EDTA should be sent to the laboratory between 4°C-28°C within 48 hours. Long term storage should be at 2-8°C.

Extracted DNA samples should be sent to the laboratory between 4°C-28°C.

Cytogenetic Samples

Cytogenetic studies require living cells, please ensure that samples reach the laboratory as soon as possible. If a delay before dispatch is unavoidable, samples may be stored in a refrigerator (4°C) but they must **not** be frozen.

Samples sent more than 48 hours after sampling, or kept at temperatures below 4°C and greater than 38°C may have inhibited growth.

Information concerning packaging, transportation, and labelling of samples is provided on the reverse of our TDL Genetics Request Form.

Requesting additional tests

Any further tests not requested at the time of sample receipt must be requested within:

- 1 week for tests requiring prenatal culture or cultured cells
- 2 weeks for DNA testing
- 2 weeks for cell culture testing
- . 3 months for FISH testing

Samples can be stored for longer periods if specifically requested at the time of sample receipt.

POSTNATAL DIAGNOSIS (BLOOD CULTURE)

Reasons for analysis: Chromosome studies are requested where problems that may have a cytogenetic basis are suspected, e.g. babies with birth defects; children with developmental delay and physical handicaps, or adults with fertility problems. Additionally, prospective gamete donors are screened to detect carriers of balanced chromosome rearrangements.

Sample requirements: Lithium heparin whole blood specimens are required – gently mixed to prevent clotting and must **not** be frozen, See sample stability section for cytogenetic samples. Sample volumes may be reduced for children (2-4ml) and neonates (1-2ml).

Turnaround time: The usual turnaround time is 2-3 weeks however the laboratory will endeavour to respond to urgent requests. Where a major trisomy is suspected, a rapid PCR screen may be performed to provide an urgent provisional result.

Notes

- a) Rarely, blood samples fail to culture (<1%);
- b) The culture may yield chromosomes of insufficient quality. This will be indicated on the report and a repeat study suggested;
- c) The laboratory should be informed if the patient has recently received a blood transfusion.
- d) The laboratory should be informed if the patient has EVER had a bone marrow transplant.

PRENATAL DIAGNOSIS

Reasons for analysis: Chromosome studies are requested where pregnancies are identified as being at risk of a cytogenetic abnormality e.g. advanced maternal age; positive maternal serum screening; fetal abnormalities found on ultrasound; or where a parent is a known carrier of a chromosome anomaly, or where a high risk trisomy has been found by NIPT. As false positive NIPT results may arise from placental mosaicism, amniocentesis is the suggested sample type for confirmation of NIPT results.

Sample requirements:

- a) amniotic fluid 10ml+ in a plain sterile, leak-proof container. Suitable containers can be provided by the laboratory. The specimen must **not** be frozen. See sample stability section for cytogenetic samples.
- b) chorionic villus 5mg+ in sterile transport medium. Suitable containers containing medium can be provided by the laboratory. The specimen must not be frozen. See sample stability section for cytogenetic samples.
- c) fetal blood 1-2ml LITHIUM HEPARIN whole blood, gently mixed to prevent clotting.
 The specimen must not be frozen. See sample stability section for cytogenetic samples.

Turnaround time: This is dependent on the rate of cell growth, however, the usual turnaround time is approximately 2 weeks. A number of circumstances now occur more frequently, as invasive prenatal diagnosis becomes less common, that may result in delayed reporting time. These include:

- a) A delay in transportation in order to collect a batch of samples to reduce courier costs.
 Even when couriered promptly, sample growth may be slower than that seen in samples sent immediately.
- b) Sampling at early or late gestations, for example to confirm non-invasive tests or follow up anomaly scans.
- c) A tendency to take smaller quantities of sample or to take insufficient sample for multiple techniques.
- d) The request for karyotyping as an add-on after an initial PCR test.

Fetal blood results will usually be reported by 10 calendar days. For all other prenatal tests, please contact the laboratory prior to taking samples.

Notes

- a) Maternal contamination, and mosaicism may complicate the analysis and may lead to the suggestion that a second invasive test is performed.
- b) Rarely, cultures fail to grow (overall <1%)
- c) Very small chromosome abnormalities may not be detected (this is why the phrase 'No trisomies or major chromosome abnormalities detected...' is used in our reports).
- d) for TTTs or heavily blood stained amniocentesis samples, please provide a maternal EDTA blood sample for comparison studies.

SOLID TISSUE

Reasons for analysis: Fibroblast cultures may be used in addition to blood cultures, for example where tissue specific mosaicism is suspected, or where blood samples cannot be obtained. POC samples may be requested for early spontaneous miscarriages, stillbirths, or to confirm a prenatal diagnosis.

Sample requirements: All specimens should be placed in a sterile container, preferably containing transport medium. This can be supplied by the laboratory. Sterile normal saline can be used if transport medium is not available. Samples must not be placed in formaldehyde or other preservative and must not be frozen. See sample stability section for cytogenetic samples.

Turnaround time: This is dependent on the rate of cell growth, however, the usual turnaround time is approximately 4 weeks.

Notes

- a) Material from miscarriages has a relatively high culture failure rate (around 20%). Where failure occurs, alternative molecular methods may be attempted, usually a KaryoLite Bacs-on-Beads assay that can detect whole monosomy or trisomy of any chromosome, if possible.
- b) If no villus or fetal parts are identified in supposedly POC material and a normal female chromosome result is found, this may indicate that maternal tissue has been cultured (this will be noted on our report).
- c) Material from miscarriages can be returned for sensitive disposal if requested at the time of receipt. If no special request is made, fetal material will be sent for incineration separate from general clinical waste. Placental and other POC material will be disposed of in general clinical waste for incineration.

FLUORESCENCE IN SITU HYBRIDISATION (FISH)

Where FISH studies for specific microdeletion syndromes are required this must be indicated on the request form.

Note: FISH studies for a rapid pre or postnatal aneuploidy screen have now been superseded in our laboratory by multiplex-PCR technology. Subtelomeric screens are now performed by Array CGH as part of developmental delay investigations. Common microdeletion syndrome testing is now performed by BOBs analysis.

CELL LINE KARYOLOGY

The cytogenetics laboratory can perform cell line karyology on live cultures or fixed cells suspensions (recommended) on a research basis. Please note: a laboratory processing charge of £100+VAT is applicable to those cases wherein a successful analysis cannot be obtained. Please contact the laboratory for further details.

STATEMENT REGARDING MEASUREMENT UNCERTAINTY (MU)

Measurement Uncertainty is determined for each measurement procedure in the examination phase used to report measured quantity values on patients' samples. This is determined during verification of this assay for service introduction; creation of laboratory standard operating procedures (SOP) and interpretation of the results.

Where examinations include a measurement step but do not report a measured quantity value, the laboratory calculates the uncertainty of the measurement step where it has utility in assessing the reliability of the examination procedure or has influence on the reported result.

Estimates of measurement uncertainty are regularly reviewed and are available upon request to laboratory users.

KEY PERSONNEL						
Consultant Clinical Geneticist	Prof. Michael Patton	020 7307 7409	michael.patton@tdlpathology.com			
Head of Cytogenetics	Rebecca Watts	020 7460 4787	rebecca.watts@hslpathology.com			
Senior Cytogeneticist	Kath Masters	020 7307 7409	kath.masters@tdlpathology.com			
Cytogenetics Operations Manager	Emma Wilcock	020 7307 7409	emma.wilcock@tdlpathology.com			
Postnatal Lab Manager	Allison Daffern	020 7307 7409	allison.daffern@tdlpathology.com			
Director of Genetic Services	Dr Lisa Levett	020 7307 7409	lisa.levett@tdlpathology.com			
Head of Genetics & Molecular Pathology	Dr Stuart Liddle	020 7307 7409	stuart.liddle@tdlpathology.com			
Operations Manager	Andrew Levett	020 3908 1282	andrew.levett@tdlpathology.com			

TEST	CODE	SAMPLE REQS	TAT	PRICE*
1p36 Deletion Syndrome - karyotype + FISH	KARY, FISH	CVS/AF/19	12-17 days	£670.00
21-Hydroxylase Deficiency (Congenital Adrenal Hyperplasia) – 8 mutations screened	GENE	A 9,11	8 weeks	£550.00
22q11 & 10p14 deletion (Di George Syndrome) – BOBs only	DGB	CVS/AF/A9	5 days	£205.00
22q11 & 10p14 deletion (Di George Syndrome) – BOBs (5 days) + karyotype (15 days)	DGB, Kary	CVS/AF/AH9	5-15 days	£575.00
Achromatopsia NGS Panel – full sequencing across 7 genes	GENE	A A ⁹	4 weeks	£1,100.00
Aicardi-Goutières Syndrome NGS Panel – full sequencing across 6 genes	GENE	A A ⁹	6 weeks	£1,000.00
Alagille Syndrome NGS Panel - full sequencing JAG1 + NOTCH2 genes	GENE	A A ⁹	6 weeks	£1,000.00
Alpha Fetoprotein on Amniotic fluid	AFPA	AF ⁹	5-10 days	£55.00
Alpha Thalassaemia – multiplex PCR for common large deletions	GENE	A 9	4 weeks	£230.00
Alpha-1 Antitrypsin Genotype – PI*M, PI*S, PI*Z	GENE	A 9	4 weeks	£265.00
Alport Syndrome NGS Panel – full sequencing COL4A3 + COL4A4 + COL4A5 + MYH9 genes	GENE	A A ⁹	6 weeks	£1,600.00
Amelogenesis/Dentinogenesis Imperfecta NGS Panel – full sequencing across 31 genes	GENE	A A ⁹	6 weeks	£1,600.00
AmnioBOBs only – rapid aneuploidy diagnosis for all chromosomes + common microdeletion syndromes	AB0B	AF ⁹	5 days	£205.00
Amniocentesis culture (karyotype) only	ACUL	AF ⁹	10-15 days	£355.00
Amniocentesis – rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days) – see profiles	ABK	AF ⁹	5-15 days	£520.00
Amniocentesis – rapid PCR diagnosis for common aneuploidies (2 days) + culture (10-15 days)	APCC	AF ⁹	2-15 days	£485.00
AmnioPCR only – rapid common aneuploidy diagnosis by QF-PCR	APC	AF ⁹	2 days	£230.00
Amylotrophic Lateral Sclerosis (Motor Neurone Disease) NGS Panel – full sequencing across 43 genes	GENE	A A ⁹	6 weeks	£1,750.00
Androgen Insensitivity – AR gene sequencing	GENE	A 9	8 weeks	£690.00
Aneurysm/Connective Tissue Disorders/Ehlers-Danlos Syndrome NGS Panel – full sequencing across 46 genes + deletions/duplications	GENE	A A ⁹	4 weeks	£2,000.00
Angelman Syndrome (Primary Screen) – methylation PCR	PWAM	A 9	5 days	£385.00
Angelman/Rett Syndromes NGS Panel – full sequencing across 30 genes	GENE	A A ⁹	6 weeks	£1,600.00
Aniridia, Isolated - PAX6 gene sequencing + deletions/duplications	GENE	A 9	8 weeks	£875.00
Anophthalmia/Microphthalmia NGS Panel – full sequencing across 30 genes	GENE	A A ⁹	6 weeks	£1,600.00

CODE	SAMPLE REQS	TAT	PRICE*
ATMA	(Whole blood 10ml) 40	6 weeks	£350.00
ATMA	(Whole blood 10ml) 40	12 weeks	£900.00
GENE	A A ⁹	6 weeks	£1,600.00
GENE	A 9	4 weeks	£350.00
APEG	A 9	5 days	£185.00
CGH	CVS/AF/A (1)9	10 days	£650.00
GENE	AA ⁹	4 weeks	£1,100.00
Requi		consent	
GENE	A 9,11	4 weeks	£450.00
ASHJ	A 9	4 weeks	£600.00
GENE	A A ⁹	6 weeks	£1,600.00
GENE	A A ⁹	6 weeks	£1,600.00
GRP	A (1) 9	10-15 days	£740.00
IGHA	(A) or FFPE	2 weeks	£350.00
GENE	A A ⁹	6 weeks	£1,100.00
GENE	A A ⁹	6 weeks	£1,100.00
LMPX	A	2 weeks	£310.00
BCRA	A A ⁹	10 days	£290.00
DND	A 9	10 days	£470.00
GENE	A 9	4 weeks	£580.00
B51	A 9	10 days	£190.00
GENE	A 9	4 weeks	£650.00
BPCR	A	5 days	£210.00
GENE	A 9	4 weeks	£750.00
Requi GENE	res patient informed (consent 4 weeks	£350.00
GENE	A	4 weeks	£500.00
Requi GENE	res patient informed o	consent	
	ATMA ATMA GENE GENE APEG CGH GENE Requi GENE ASHJ GENE GENE GENE GENE GENE GENE GENE GEN	ATMA (Whole blood 10ml) 40 ATMA (Whole blood 10ml) 40 GENE	ATMA (Whole blood 10ml) 40 6 weeks ATMA (Whole blood 10ml) 40 12 weeks GENE GENE APEG CYS/AF/A 19 10 days GENE ASHJ A9 4 weeks GENE A9 4 weeks Requires patient informed consent GENE A9 6 weeks GENE A9 10-15 days IGHA A 0 or FFPE 2 weeks GENE A9 6 weeks GENE A9 6 weeks GENE A9 6 weeks GENE A9 10 days GENE A9 10 days GENE A9 4 weeks B51 A9 10 days GENE B51 A9 10 days GENE A9 4 weeks B51 A9 10 days GENE A9 4 weeks BFCR A9 4 weeks

^{*}Prices for tests with the GENE code are as shown and practice discounts do not apply. Turnaround times are quoted as working days.

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Brugada Syndrome/Long-QT NGS Panel – full sequencing across 34 genes	GENE	A A 9	4 weeks	£1,000.00
C-KIT (Common mutation KIT D816V Gene)	GENE	A	4 weeks	£230.00
CADASIL – NOTCH3 gene sequencing	GENE	A 9	6 weeks	£950.00
CAKUT (Congenital Anomalies of Kidney & Urinary Tract) NGS Panel – full sequencing across 38 genes	GENE	A A 9	6 weeks	£1,600.00
Calreticulin – CALR exon 9 mutation screen	CALR	A 9	2 weeks	£295.00
Cancer, Comprehensive NGS Panel – full sequencing across 123 genes + deletions/duplications	Requir GENE	es patient informed	l consent 4 weeks	£1,250.00
Carbohydrate Metabolism Deficiency NGS Panel – full sequencing across 47 genes + deletions/duplications + mitochondrial DNA	GENE	A A ⁹	4 weeks	£2,000.00
Cardio-Facio-Cutaneous/Noonan/LEOPARD/ Costello Syndromes NGS Panel – full sequencing across 20 genes	GENE	A A ⁹	6 weeks	£1,200.00
Cardiomyopathy, Arrhythmogenic Right Ventricular NGS Panel – sequencing across 34 genes + deletions/duplications	GENE	A A ⁹	4 weeks	£1,100.00
Cardiomyopathy, Comprehensive NGS Panel – full sequencing across 111 genes + deletions/duplications	GENE	A A 9	4 weeks	£1,600.00
Cardiomyopathy, Dilated NGS Panel – full sequencing across 78 genes + deletions/duplications	GENE	A A ⁹	4 weeks	£1,100.00
Cardiomyopathy, Hypertrophic NGS Panel – full sequencing across 86 genes + deletions/duplications	GENE	A A ⁹	4 weeks	£1,100.00
Carrier Screen (Pan-ethnic or Jewish) – see profiles	GENE	A 9	4 weeks	£600.00
Catecholaminergic Polymorphic Ventricular Tachycardia (CPVT) NGS Panel – full sequencing across 9 genes + deletions/duplications	GENE	A A ⁹	4 weeks	£1,100.00
Cerebellar Hypoplasia NGS Panel – full sequencing across 8 genes	GENE	A A ⁹	6 weeks	£1,600.00
Charcot-Marie-Tooth Syndrome NGS Panel – full sequencing across 59 genes	GENE	A A 9	6 weeks	£1,600.00
Charcot-Marie-Tooth Type 1A – PMP22 duplications	GENE	A 9	4 weeks	£300.00
CHARGE Syndrome – CHD7 gene sequencing	GENE	A 9	8 weeks	£800.00
Chediak-Higashi Syndrome – LYST gene sequencing	GENE	A 9	4 weeks	£750.00
Cholestasis, Intrahepatic NGS Panel – full sequencing across 15 genes	GENE	A A 9	6 weeks	£1,200.00
Chromosome Analysis (Amniocentesis) – culture only	ACUL	AF ⁹	10-15 days	£355.00
Chromosome Analysis (Amniocentesis) - rapid B0Bs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days) - see profiles	ABK	AF ⁹	5-15 days	£520.00
Chromosome Analysis (Amniocentesis) - rapid PCR diagnosis for common aneuploidies (2 days) + culture (10-15 days)	APCC	AF ⁹	2-15 days	£485.00
Chromosome Analysis (Blood)	KARY	D 9	8-18 days	£370.00
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TEST	CODE	SAMPLE REQS	TAT	PRICE*
Chromosome Analysis (Chorionic Villus) – culture only	CVSC	CVS 1,9	10-15 days	£355.00
Chromosome Analysis (Chorionic Villus) - rapid PCR diagnosis for common aneuploidies (2 days) + culture (10-15 days)	CVPC	CVS 1,9	2-15 days	£485.00
Chromosome Analysis (Chorionic Villus) - rapid B0Bs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days) - see profiles	СВК	CVS ⁹	5-15 days	£520.00
Chromosome Analysis (Product of Conception) – BOBs rapid aneuploidy diagnosis for all chromosomes (5 days) + culture (25 days)	PBK	Placental Sample 1,9	5-25 days	£520.00
Chromosome Analysis (Products of Conception)	PROC	Placental Sample 1,9	20-25 days	£385.00
Chromosome Analysis (Solid Tissue)	PROC	Fetal tissue 1,9	4-5 weeks	£385.00
Chromosome Analysis (Stem Cells)	STEM/ SUSP	Culture/Fixed cells	Contact lab	£380.00
Chromosome Y Deletion – AZFa, AZFb, AZFc + SRY	YDEL	A 9	5 days	£200.00
Cockayne Syndrome NGS Panel - full sequencing ERCC6 + ERCC8	GENE	AA ⁹	5 weeks	£1,100.00
Coeliac Disease – HLA DQ2/DQ8 genotyping	Q2Q8	A 9	10 days	£170.00
Colorectal Cancer NGS Panel – full sequencing across 18 genes + deletions/duplications	Requires patient informed consent GENE A A 9,11 4 weeks			£900.00
Comparative Genomic Hybridisation (Array CGH)	CGH	CVS/AF/(A) (1)9	10 days	£650.00
Congenital Absence of Vas Deferens – karyotype + cystic fibrosis screen + polyT(5T) + Y deletions	GRP	A (1) 9	10-15 days	£740.00
Congenital Adrenal Hyperplasia (21-Hydroxylase Deficiency) – 8 mutations + deletions/duplications	GENE	A 9	8 weeks	£550.00
Congenital Central Hypoventilation Syndrome (CCHS) – full sequencing PHO X2B gene	GENE	A 9	4 weeks	£650.00
Congenital Central Hypoventilation Syndrome (CCHS) – PHOX2B polyalanine repeat analysis	GENE	A 9	4 weeks	£375.00
Congenital Disorders of Glycosylation NGS Panel – full sequencing across 45 genes + deletions/duplications + mitochondrial DNA	GENE	AA ⁹	5 weeks	£2,000.00
Congenital Muscular Dystrophy NGS Panel – full sequencing across 27 genes	GENE	A A ⁹	6 weeks	£1,600.00
Connective Tissue Disorders/Ehlers-Danlos Syndrome/Aneurysm NGS Panel – full sequencing across 46 genes + deletions/duplications	GENE	A A ⁹	5 weeks	£2,000.00
Connexin-26 Associated Deafness – full sequencing GJB2 gene (+ GJB6 common deletion)	GENE	A 9	8 weeks	£450.00
Cornelia de Lange Syndrome NGS Panel – full sequencing across 8 genes	GENE	A A ⁹	6 weeks	£1,100.00
Costello/Noonan/LEOPARD/Cardio-Facio-Cutaneous Syndromes NGS Panel – full sequencing across 20 genes	GENE	A A ⁹	6 weeks	£1,200.00
Craniosynostosis and related disorders NGS Panel	GENE	AA	6 weeks	£1,100.00

^{*}Prices for tests with the GENE code are as shown and practice discounts do not apply. Turnaround times are quoted as working days.

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Cri du Chat Syndrome - BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/A (1)9	5-15 days	£580.00
Cri du Chat Syndrome – BOBs only	PB0B	CVS/AF/(A)9	5 days	£205.00
CVS PCR for common aneuploidies (2 days) + culture (10-15 days)	CVPC	CVS ⁹	2-15 days	£485.00
CVSBOBs – rapid BOBs aneuploidy diagnosis for all chromosomes (3-5 days) + culture (10-15 days) – see profiles	CBK	CVS ⁹	5-15 days	£520.00
CVSBOBs only – rapid aneuploidy diagnosis for all chromosomes + common microdeletion syndromes	СВОВ	CVS ⁹	5 days	£205.00
CYP450 2D6 Genotyping	TGEN	A 9	10 days	£370.00
Cystic Fibrosis – 139 common mutations	CFS	A 9	5 days	£260.00
Cystic Fibrosis Poly T (5T, 7T, 9T)	PLYT	A 9	5 days	£175.00
Deafness NGS Panel – full sequencing across 179 genes	GENE	A A ⁹	6 weeks	£1,600.00
Deafness, Non-Syndromic – GJB2 sequencing + GJB6 common deletion	GENE	A 9	8 weeks	£450.00
Dentinogenesis/Amelogenesis Imperfecta NGS Panel – full sequencing across 31 genes	GENE	A A ⁹	6 weeks	£1,600.00
Diabetes Mellitus, MODY NGS Panel – full sequencing across 13 genes	GENE	A A ⁹	6 weeks	£1,600.00
Diabetes Mellitus, Neonatal NGS Panel - full sequencing across 26 genes	GENE	A A ⁹	6 weeks	£1,600.00
DiGeorge Syndrome (22q11 & 10p14 deletion) - BOBs (5 days) + karyotype (15 days)	DGB, KARY	CVS/AF/A H9	5-15 days	£575.00
DiGeorge Syndrome (22q11 & 10p14) – BOBs only	DGB	CVS/AF/(A)9	5 days	£205.00
Dihydropyrimidine Dehydrogenase deficiency screening (Fluoropyrimidine Toxicity) – 5 mutations	GENE	A 9	1-2 weeks	£295.00
Dilated Cardiomyopathy NGS Panel – full sequencing across 78 genes + deletions/duplications	GENE	A A ⁹	4 weeks	£1,100.00
$\textbf{DNA Extraction \& Storage} - 3 \ \text{years (longer upon request)}$	XDNA	A 9	10 days	£145.00
DNA Identity Profile – 15 STR markers	DNAF	A 9	10 days	£315.00
Doyne Honeycomb Retinal Dystrophy – EFEMP1 screening	GENE	A 9	4 weeks	£350.00
Duchenne Muscular Dystrophy – deletions/duplications only	DMD	A 9	10 days	£470.00
Duchenne Muscular Dystrophy – full sequencing DMD1 gene	GENE	A 9	6 weeks	£950.00
DVT/Pre-travel Screen – see profiles	DVT1	A A B ⁹	5 days	£230.00
Ehlers-Danlos Syndrome/Aneurysm/Connective Tissue Disorders NGS Panel – full sequencing across 46 genes + deletions/duplications	GENE	A A ⁹	5 weeks	£2,000.00
Endometrial Cancer NGS Panel – full sequencing	Requir	es patient informed	consent	
across 10 genes + deletions/duplications	GENE	A A 9,11	4 weeks	£900.00
Epidermolysis Bullosa, Comprehensive NGS Panel – full sequencing across 13 genes	GENE	A A ⁹	6 weeks	£1,600.00

Epidermolysis Bullosa, Simplex Panel	TEST	CODE	SAMPLE REQS	TAT	PRICE*
Epilepsy, Childhood Panel — full sequencing across 211 genes + deletions/duplications Epilepsy, Comprehensive NGS Panel — full sequencing across 400 genes + deletions/duplications Epilepsy, Neonatal Panel — sequencing across 278 genes + deletions/duplications Epilepsy, Neonatal Panel — sequencing across 278 genes + deletions/duplications Epilepsy, Progressive Myoclonic Panel — sequencing across 18 genes + deletions/duplications Epilepsy, Progressive Myoclonic Panel — sequencing across 18 genes + deletions/duplications Epilepsy, Progressive Myoclonic Panel — sequencing across 18 genes + deletions/duplications Epilepsy, Progressive Myoclonic Panel — sequencing across 18 genes + deletions/duplications Epilepsy, Progressive Myoclonic Panel — sequencing across 18 genes + deletions/duplications Epilepsy, Progressive Myoclonic Panel — sequencing across 18 genes + deletions/duplications Epilepsy, Progressive Myoclonic Panel — sequencing across 18 genes + deletions/duplications Epilepsy, Progressive Myoclonic Panel — sequencing Across 18 genes + deletions/duplications Epilepsy, Neonatal Panel — sequencing Across 18 genes + deletions/duplications Epilepsy, Neonatal Panel — sequencing Across 18 genes + deletions/duplications Epilepsy, Neonatal Panel — sequencing Across 18 genes + deletions/duplications Epilepsy, Neonatal Panel — sequencing Across 18 genes + deletions/duplications Epilepsy, Neonatal Panel — sequencing Across 18 genes + deletions/duplications Epilepsy, Neonatal Panel — sequencing Across 18 genes + deletions/duplications Epilepsy, Neonatal Panel — sequencing Across 18 genes + deletions/duplications Epilepsy, Neonatal Panel — sequencing Across 18 genes + deletions/duplications Epilepsy, Neonatal Panel — sequencing Across 18 genes + deletions/duplications Epilepsy, Neonatal Panel — sequencing NDP + FZD4 + LRP5 — GENE Across 18 genes + deletions/duplications Epilepsy, Neonatal Panel — sequencing NDP + FZD4 + LRP5 — GENE Across 250.00 Epilepsy (Whole blood 10ml) 40 Genes Scanou Across 18 g		GENE	A A 9	8 weeks	£700.00
211 genes + deletions/duplications Epilepsy, Comprehensive NGS Panel – full sequencing across 400 genes + deletions/duplications Epilepsy, Neonatal Panel — sequencing across 278 genes + deletions/duplications Epilepsy, Progressive Myoclonic Panel — sequencing across 18 genes + deletions/duplications Epilepsy, Progressive Myoclonic Panel — sequencing across 18 genes + deletions/duplications Epilepsy, Progressive Myoclonic Panel — sequencing across 18 genes + deletions/duplications Epilepsy, Progressive Myoclonic Panel — sequencing across 18 genes + deletions/duplications GENE GENE GENE GENE GENE GENE GENE A weeks E1,100.00 GENE A weeks E1,100.00 GENE A weeks E1,200.00 To weeks E1,200.00 GENE GENE A weeks E1,200.00 A weeks E1,200.00 GENE GENE A weeks E1,200.00 A weeks E1,200.00 GENE GENE A weeks E1,200.00 GENE A weeks E1	,	GENE	A	6 weeks	£1,000.00
Carross 400 genes + deletions/duplications GENE	,	GENE	A	6 weeks	£1,000.00
### Page 1278 genes + deletions/duplications Pilepsy, Progressive Myoclonic Panel - sequencing across 18 genes + deletions/duplications Exudative Vitreoretinopathy, Familial (FEVR) NGS Panel - full sequencing NDP + FZD4 + LRP5 + TSPAN12 + ZNF408 genes Eye Developmental Disease NGS Panel - full sequencing across 59 genes Eye Developmental Disease NGS Panel - full sequencing across 59 genes Eye Developmental Disease NGS Panel - full sequencing across 59 genes Fabry Disease, X-linked - GLA gene sequencing		GENE	A A 9	6 weeks	£1,600.00
Across 18 genes + deletions/duplications Exudative Vitreoretinopathy, Familial (FEVR) NGS Panel - full sequencing NDP + FZD4 + LRP5 + TSPAN12 + ZNF408 genes Eye Developmental Disease NGS Panel - full sequencing across 59 genes Eye Developmental Disease NGS Panel - full sequencing across 59 genes Fabry Disease, X-linked - GLA gene sequencing Factior State deletion Factor V Leiden - G1691A mutation FX2 GENE GENE A A 9 4 weeks £750.00 Factor V Leiden - G1691A mutation FX5 G 9 5 days £175.00 Factor VII Deficiency - F7 Gene Variant Analysis (Known Genotype) Factor VII Deficiency - F7 Gene Variant Analysis (Known Genotype) Factor X Deficiency - F10 Gene Variant Analysis (Known Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency - F11 Gene Variant Analy	,	GENE	A	6 weeks	£1,100.00
NGS Panel – full sequencing NDP + FZD4 + LRP5 + TSPAN12 + ZNF408 genes Eye Developmental Disease NGS Panel – full sequencing across 59 genes Fabry Disease, X-linked – GLA gene sequencing FABM ্ 9 4 weeks £1,200.00 Facioscapulohumeral Muscular Dystropy (FSHD) — D4Z4 repeat deletion Factor II Prothrombin — G20210A mutation FX2 ️ 9 5 days £175.00 Factor V Leiden — G1691A mutation FX5 ️ 9 5 days £175.00 Factor VII Deficiency — F7 Gene Variant Analysis (Known Genotype) Factor VII Deficiency — F7 Gene Variant Analysis (Known Genotype) Factor X Deficiency — F10 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency — F10 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown		GENE	A	6 weeks	£1,100.00
Fabry Disease, X-linked — GLA gene sequencing FABM	NGS Panel – full sequencing NDP + FZD4 + LRP5 +	GENE	AA ⁹	4 weeks	£875.00
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Factor V Leiden — G1691A mutation Factor VII Deficiency — F7 Gene Variant Analysis (Known Genotype) Factor VII Deficiency — F7 Gene Variant Analysis (Unknown Genotype) Factor VII Deficiency — F7 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency — F10 Gene Variant Analysis (Known Genotype) Factor X Deficiency — F10 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency — F10 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Known Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency — F11 Gene Variant Analysis (Whole blood 10ml) 40 6 weeks £350.00 Familial Adenomatous Polyposis (FAP) — full sequencing Requires patient informed consent GENE (A) (A) 9.11 4 weeks £900.00 Familial Exudative Vitreoretinopathy (FEVR) NGS Panel — full sequencing NDP + FZD4 + LRP5 GENE (A) (A) 9.11 4 weeks £875.00 + TSPAN12 + ZNF408 genes Familial Hypercholesterolaemia — LDLR + APOB + PCSK9 + LDLRAP1 screening Familial Hypocalciuric Hypercalcaemia (FHH) Panel — full sequencing CASR + AP2S1 + GNA11 genes Familial Mediterranean Fever GENE (A) (A) 9 4 weeks £1,100.00		GENE	AAA ⁹	8 weeks	£650.00
Factor VII Deficiency – F7 Gene Variant Analysis (Known Genotype) Factor VII Deficiency – F7 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency – F10 Gene Variant Analysis (Known Genotype) Factor X Deficiency – F10 Gene Variant Analysis (Known Genotype) Factor X Deficiency – F10 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency – F10 Gene Variant Analysis (Unknown Genotype) Factor X Deficiency – F10 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency – F11 Gene Variant Analysis (Known Genotype) Factor XI Deficiency – F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency – F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency – F11 Gene Variant Analysis (Unknown Genotype) Factor XI Deficiency – F11 Gene Variant Analysis (Unknown Genotype) Familial Adenomatous Polyposis (FAP) – full sequencing across 18 genes + deletions/duplications GENE A A 9.11 4 weeks £900.00 Familial Exudative Vitreoretinopathy (FEVR) NGS Panel – full sequencing NDP + FZD4 + LRP5 + TSPAN12 + ZNF408 genes Familial Hypercholesterolaemia – LDLR + APOB + PCSK9 + LDLRAP1 screening Familial Hypocalciuric Hypercalcaemia (FHH) Panel – full sequencing CASR + AP2S1 + GNA11 genes Familial Mediterranean Fever GENE GENE A 9 8 weeks £1,100.00	Factor II Prothrombin – G20210A mutation	FX2	A 9	5 days	£175.00
Factor VII Deficiency – F7 Gene Variant Analysis (Unknown Genotype) TMA (Whole blood 10ml) 40 12 weeks	Factor V Leiden – G1691A mutation	FX5	A 9	5 days	£175.00
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(Unknown Genotype) Familial Adenomatous Polyposis (FAP) – full sequencing across 18 genes + deletions/duplications Familial Exudative Vitreoretinopathy (FEVR) NGS Panel – full sequencing NDP + FZD4 + LRP5 + TSPAN12 + ZNF408 genes Familial Hypercholesterolaemia – LDLR + APOB + PCSK9 + LDLRAP1 screening Familial Hypocalciuric Hypercalcaemia (FHH) Panel – full sequencing CASR + AP2S1 + GNA11 genes Familial Mediterranean Fever GENE (Whole blood 10ml) 40 12 weeks £900.00 Requires patient informed consent GENE A 9 9 4 weeks £900.00 GENE A 9 4 weeks £9525.00 £525.00		11MA		6 weeks	£350.00
across 18 genes + deletions/duplications Familial Exudative Vitreoretinopathy (FEVR) NGS Panel – full sequencing NDP + FZD4 + LRP5 + TSPAN12 + ZNF408 genes Familial Hypercholesterolaemia – LDLR + APOB + PCSK9 + LDLRAP1 screening Familial Hypocalciuric Hypercalcaemia (FHH) Panel – full sequencing CASR + AP2S1 + GNA11 genes Familial Mediterranean Fever GENE A A 9 4 weeks £525.00	· · · · · · · · · · · · · · · · · · ·	11MA		12 weeks	£900.00
NGS Panel – full sequencing NDP + FZD4 + LRP5 GENE A A 9 4 weeks £875.00 + TSPAN12 + ZNF408 genes Familial Hypercholesterolaemia – LDLR + AP0B + PCSK9 + LDLRAP1 screening Familial Hypocalciuric Hypercalcaemia (FHH) Panel – full sequencing CASR + AP2S1 + GNA11 genes Familial Mediterranean Fever GENE A 9 4 weeks £1,100.00					£900.00
LDLR + APOB + PCSK9 + LDLRAP1 screening Familial Hypocalciuric Hypercalcaemia (FHH) Panel - full sequencing CASR + AP2S1 + GNA11 genes Familial Mediterranean Fever GENE A 9 4 weeks £325.00	NGS Panel – full sequencing NDP + FZD4 + LRP5	GENE	AA ⁹	4 weeks	£875.00
- full sequencing CASR + AP2S1 + GNA11 genes GENE 8 Weeks £1,100.00 Familial Mediterranean Fever GENE A9 4 weeks £380.00		GENE	A A ⁹	4 weeks	£525.00
GENE A Weeks £380.00	** ** * * * * * * * * * * * * * * * * *	GENE	A A ⁹	8 weeks	£1,100.00
		GENE	A ⁹	4 weeks	£380.00

^{*}Prices for tests with the GENE code are as shown and practice discounts do not apply. Turnaround times are quoted as working days.

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Familial Medullary Thyroid Carcinoma - hotspot sequencing RET gene	Requi	res patient informed (consent 8 weeks	£525.00
Fatty Acid Oxidation Deficiency NGS Panel – full sequencing across 22 genes	GENE	A A ⁹	6 weeks	£1,600.00
FLT3-ITD and FLT3-TKD screening assay	FLT3	A	3-5 days	£360.00
Fluoropyrimidine Toxicity screening - 5 common mutations	GENE	A 9	1-2 weeks	£295.00
Fragile X Syndrome screen – FMR1 repeat analysis PCR (3 weeks) + Southern Blot (8 weeks) if required	GENE	A A A ⁹	3-8 weeks	£295.00
Friedreich Ataxia – frataxin gene repeat analysis	GENE	A 9	4 weeks	£295.00
Gastric Cancer NGS Panel – full sequencing across 15 genes + deletions/duplications	Requi	res patient informed o	consent 4 weeks	£1,100.00
Gaucher Disease – 8 common mutations	GENE	A 9	4 weeks	£375.00
Gaucher Disease full gene sequencing	GDMA	A 40	4 weeks	£800.00
Genetic Reproductive Profile (Male) – see profiles	GRP	A (1) 9	10-15 days	£740.00
Gilbert Syndrome – common UGT1A1 repeat variation	GENE	A 9	6 weeks	£285.00
Glaucoma NGS Panel – full gene sequencing across 26 genes	GENE	A A ⁹	6 weeks	£1,600.00
Glucose-6-Phosphate Dehydrogenase (G6PD) Deficiency – full G6PD gene sequencing	GENE	A 9	4 weeks	£950.00
Glycogen storage disease type 2 (Pompe) mutation analysis	POMP	A	4 weeks	£820.00
Haemochromatosis – HFE common mutations C282Y + H63D	HMD	A 9	3 days	£190.00
Haemolytic-Uremic Syndrome NGS Panel - full sequencing across 15 genes	GENE	A A ⁹	8 weeks	£1,575.00
Haemophilia A Variant Analysis (Known Genotype) – F8 Intron 22 Inversion, F8 Intron 1 Inversion, Sequence analysis of known variants for F8 gene	HACD	(Whole blood 10ml) 40	6 weeks	£350.00
Haemophilia A Variant Analysis (Unknown Genotype) – F8 Intron 22 Inversion, F8 Intron 1 Inversion, Sequence analysis of unknown variants for F8 gene	НАМА	(Whole blood 10ml) 40	12 weeks	£900.00
Haemophilia A CVS Variant Analysis (Known Genotype) – F8 Intron 22 Inversion, F8 Intron 1 Inversion, Sequence analysis of known variants for F8 gene	8CVS	CVS 40	3 days	£515.00
Haemophilia B Variant Analysis (Known Genotype) – Sequence analysis of known variants for F9	HBCD	(Whole blood 10ml) 40	6 weeks	£350.00
Haemophilia B Variant Analysis (Unknown Genotype) - Sequence analysis of unknown variants for F9	НВМА	(Whole blood 10ml) 40	12 weeks	£900.00
Haemophilia B CVS Variant Analysis (Known Genotype) – Sequence analysis of known variants for F9	9CVS	CVS 40	3 days	£515.00
Harmony® Prenatal Test (Non-Invasive Prenatal Testing) — common aneuploidy screening from maternal blood	NIPT	J/Special tubes ¹	3-5 days	£295.00

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Harmony® Prenatal Test (Non-Invasive Prenatal Testing) - common aneuploidy screening from maternal blood including 22q11.2 del	NIPQ	J/Special tubes ¹	3-5 days	£385.00
Hearing Loss NGS Panel - full sequencing across 179 genes	GENE	AA ⁹	6 weeks	£1,600.00
Hemiplegic Migraine, Familial NGS Panel - full sequencing across 6 genes + mtDNA	GENE	A A ⁹	5 weeks	£1,600.00
Hereditary Cancer NGS Panel, Comprehensive – full sequencing across 127 genes + deletions/duplications	Requi GENE	res patient informed o	consent 4 weeks	£1,250.00
Hereditary Hemorrhagic Telangiectasia – ACVRL1 + ENG full sequencing + deletions/duplications	GENE	AA ⁹	8 weeks	£875.00
Hereditary Neuropathy NGS Panel – full sequencing across 39 genes	GENE	A A ⁹	6 weeks	£1,600.00
Hereditary Neuropathy with Liability to Pressure Palsy – PMP22 deletion analysis	GENE	A 9	4 weeks	£295.00
Hereditary Non-Polyposis Colon Cancer	Requi	res patient informed o	consent	
(Lynch Syndrome) NGS Panel – full sequencing across 18 genes + deletions/duplications	GENE	A A 9,11	4 weeks	£900.00
Hereditary Pancreatitis – PRSS1 hotspot sequencing + deletions/duplications + SPINK1 N34S common mutation	GENE	A 9	8 weeks	£600.00
Hereditary Spastic Paraplegia NGS Panel - full sequencing across 262 genes + deletions/duplications + mitochondrial DNA	GENE	A A ⁹	5 weeks	£2,000.00
Hermansky-Pudlak Syndrome/Oculocutaneous Albinism/Pigmentation NGS Panel - full sequencing across 30 genes	GENE	A A ⁹	4 weeks	£900.00
HFE gene (Haemochromatosis) - common mutations C282Y + H63D	HMD	A ⁹	3 days	£190.00
Hirschprung Disease NGS Panel – full sequencing across 6 genes + copy number variant	GENE	A A ⁹	4 weeks	£1,100.00
HLA Tissue Typing A/B/DRB1/3/4/5	HLAF	A 9	10 days	£490.00
HLA Tissue Typing A/B/DRB1/3/4/5/DQB1	HLF	A 9	10 days	£540.00
HLA Tissue Typing A/B/C/DRB1/3/4/5/DQB1 (Class I & II)	HLFC	A 9	10 days	£640.00
HLA Tissue Typing A	HLA	A 9	10 days	£190.00
HLA Tissue Typing A+B	HLBA	A 9	10 days	£300.00
HLA Tissue Typing A+B+C (Class I)	HABC	A 9	10 days	£490.00
HLA Tissue Typing B	HLB	A 9	10 days	£190.00
HLA Tissue Typing B*27 only	HLAB	A 9	3 days	£180.00
HLA Tissue Typing B*51 (Behcet's Disease)	B51	A 9	10 days	£190.00
HLA Tissue Typing B*57:01 high resolution	HL57	A 9	10 days	£275.00
HLA Tissue Typing C	HLC	A 9	10 days	£190.00
HLA Tissue Typing Coeliac Disease – DQ2/DQ8	Q2Q8	A 9	10 days	£170.00
HLA Tissue Typing DRB1/3/4/5/DQB1 (Class II)	HLDQ	A 9	10 days	£300.00
HLA Tissue Typing DRB1/3/4/5	DRB1	A 9	10 days	£190.00
HLA Tissue Typing Narcolepsy – DQB1*06:02	GENE	A 9	4 weeks	£375.00

^{*}Prices for tests with the GENE code are as shown and practice discounts do not apply. Turnaround times are quoted as working days.

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Huntington Disease	Requir	es patient informed	consent	
- HD gene repeat analysis PCR	GENE	A A 9,11	4 weeks	£295.00
Hyperinsulinism NGS Panel – full sequencing across 8 genes	GENE	A A ⁹	8 weeks	£1,575.00
Hyperparathyroidism – CASR sequencing	GENE	A 9	8 weeks	£730.00
Hypertriglyceridemia NGS Panel – full sequencing across 47 genes	GENE	A A ⁹	8 weeks	£1,000.00
Identity Profile (DNA) – 15 STR markers	DNAF	A 9,11	10 days	£315.00
IgVH mutation analysis for CLL	IGMU	A	4 weeks	£350.00
Incontinentia Pigmenti, X-linked – IKBKG/NEMO common mutation	GENE	A 9	4 weeks	£350.00
Intellectual Disability NGS Panel – full sequencing across 560 genes + deletions/duplications	GENE	A A ⁹	6 weeks	£1,750.00
Intrahepatic Cholestasis NGS Panel - full sequencing ABCB11 + ABCB4 + ATP8P1	GENE	A A ⁹	6 weeks	£1,400.00
Iron Overload Profile – see profiles	IOP	A B 9	3 days	£245.00
JAK 2 – exon 12 sequencing (rare mutations) – MUST arrive in the laboratory within 48 hours, before 12pm on Fridays	GENE	A 9	4 weeks	£295.00
JAK2 V617F genotyping assay	JAK2	A	2 weeks	£230.00
Jervell and Lange-Nielsen Syndrome - full sequencing KCNE1 + KCNQ1 genes	GENE	AA ⁹	6 weeks	£800.00
Jewish/Pan-ethnic carrier screening – see profiles	ASHJ	A 9	4 weeks	£600.00
Joubert/Meckel-Gruber Syndrome NGS Panel – full sequencing across 24 genes	GENE	A A ⁹	6 weeks	£1,600.00
Kallmann Syndrome NGS Panel – full sequencing across 19 genes	GENE	A A ⁹	6 weeks	£1,600.00
Karyotype – see Chromosome Analysis				
Kennedy Disease (Spinal Bulbar Muscular Atrophy) – AR repeat expansion	GENE	A 9	6 weeks	£295.00
Kenny-Caffey (Sanjad-Sakati) Syndrome – common 12bp TBCE gene deletion	TBC	A 9	10 days	£360.00
Ketolysis Disorders NGS Panel – full sequencing across 7 genes	GENE	A A ⁹	6 weeks	£1,400.00
Kidney/Urinary Tract Cancer NGS Panel –	Requir	es patient informed	consent	
full sequencing across 27 genes + deletions/duplications	GENE	A A 9,11	4 weeks	£1,100.00
Lactose Intolerance Gene	LACG	<u> </u>	2 weeks	£130.00
Krabbe Disease – GALC sequencing + 502T/del common deletion	GENE	A 9	6 weeks	£975.00
Langer-Giedion Syndrome - BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/A H 9	5-15 days	£575.00
Langer-Giedion Syndrome – BOBs only	PB0B	CVS/AF/(A)9	5 days	£205.00
Leber's Congenital Amaurosis NGS Panel – full sequencing across 32 genes	GENE	A A ⁹	6 weeks	£1,600.00

Key: See page 19 for sample taking and special handling instructions.

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Lebers Hereditary Optic Neuropathy – m.3460G>A + m.11778G>A + m.14484T>C common mutations	GENE	A 9	8 weeks	£350.00
Leigh Syndrome NGS Panel – full sequencing across 78 genes + deletions/duplications + mitochondrial DNA	GENE	A A ⁹	4 weeks	£2,000.00
LEOPARD/Noonan/Cardio-Facio-Cutaneous/Costello Syndromes NGS Panel – full sequencing across 20 genes	GENE	A A ⁹	6 weeks	£1,200.00
Leukaemia Fusion Gene Screening Assay (Q30)	LMPX	A	2 weeks	£410.00
Li-Fraumeni Syndrome (p53-related cancer predisposition) – TP53 sequencing + MLPA	Requir GENE	res patient informed (A) 9,11	consent 6 weeks	£980.00
Limb-Girdle Muscular Dystrophy (LGMD) NGS Panel – full sequencing across 34 genes	GENE	A A ⁹	6 weeks	£1,700.00
Lissencephaly NGS Panel – full sequencing across 14 genes	GENE	A A ⁹	8 weeks	£1,750.00
Loeys-Dietz Syndrome/Marfan Syndrome/Aortopathy NGS Panel – full sequencing across 26 genes	GENE	A A ⁹	8 weeks	£1,750.00
Long-QT Syndrome/Brugada Syndrome – full sequencing across 34 genes	GENE	A A ⁹	4 weeks	£1,000.00
Lowe (Oculocerebrorenal) Syndrome - OCRL sequencing + large deletions	GENE	A 9	8 weeks	£955.00
Lung Disorders NGS Panel – full sequencing across 51 genes	GENE	A A ⁹	6 weeks	£1,600.00
Lynch Syndrome (HNPCC) NGS Panel – full sequencing across 18 genes + deletions/duplications	Requir GENE	res patient informed A A 9,11	consent 4 weeks	£900.00
Lysosomal Disorders NGS Panel – full sequencing across 106 genes	GENE	A A ⁹	6 weeks	£1,600.00
Male Genetic Reproductive Profile – see profiles	GRP	A (1) 9	10-15 days	£740.00
Marfan Syndrome/Loeys-Dietz Syndrome/Aortopathy NGS Panel – full sequencing across 26 genes	GENE	A A ⁹	6 weeks	£1,600.00
Marfan Syndrome – FBN1 sequencing + deletions/ duplications	GENE	A 9	5 weeks	£950.00
Maturity-Onset Diabetes of the Young (MODY) NGS Panel – full sequencing across 13 genes	GENE	A A ⁹	6 weeks	£1,500.00
Meckel-Gruber/Joubert Syndrome NGS Panel – full sequencing across 24 genes	GENE	A A ⁹	6 weeks	£1,600.00
Medium-Chain Acyl-CoA Dehydrogenase Deficiency – ACADM sequencing	GENE	A 9	4 weeks	£925.00
Melanoma NGS Panel – full sequencing across		res patient informed		01 100 00
14 genes + deletions/duplications Microdeletion (common) Syndromes – BOBs only	GENE PBOB	CVS/AF/A 9	4 weeks 5 days	£1,100.00 £205.00
Microphthalmia/Anophthalmia/Coloboma NGS Panel				
- full sequencing across 78 genes	GENE	A A ⁹	6 weeks	£1,600.00
Miller-Dieker Syndrome – BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/A (1)9	5-15 days	£575.00
Miller-Dieker Syndrome – BOBs only	PB0B	CVS/AF/A9	5 days	£205.00

^{*}Prices for tests with the GENE code are as shown and practice discounts do not apply. Turnaround times are quoted as working days.

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Mitochondrial genome – full mitochondrial DNA sequencing + deletions	GENE	A 9	5 weeks	£1,200.00
Mitochondrial genome sequencing	GENE	A 9	5 weeks	£875.00
Motor Neurone Disease (Amylotrophic Lateral Sclerosis) NGS Panel – full sequencing across 43 genes	GENE	A A ⁹	6 weeks	£1,700.00
MPL exon 10 analysis	MPL	A	2 weeks	£295.00
MTHFR – common C677T + A1298C mutations	MTHF	A 9	5 days	£190.00
Mucopolysaccharidosis NGS Panel - full sequencing across 11 genes	GENE	A A ⁹	8 weeks	£1,550.00
Multiple Endocrine Neoplasia Type 1	Requi	res patient informed o	consent	
- full MEN1 sequencing	GENE	A 9,11	8 weeks	£700.00
Multiple Endocrine Neoplasia Type 2 - RET gene hotspot sequencing	Requi GENE	res patient informed o	consent 8 weeks	£525.00
Muscular Atrophy NGS Panel – full sequencing across 17 genes	GENE	A A ⁹	8 weeks	£1,700.00
Myotonic Dystrophy Type 1 – DMPK repeat PCR	GENE	A 9	4 weeks	£295.00
Myotonic Dystrophy Type 2 (PROMM) – ZNF9 repeat PCR	GENE	A 9	4 weeks	£295.00
Narcolepsy (HLA DQB1*06:02)	GENE	A 9	4 weeks	£375.00
Nephrotic Syndrome, Steroid-Resistant NGS Panel – full sequencing across 14 genes	GENE	A A ⁹	6 weeks	£1,600.00
Nervous System/Brain Cancer NGS Panel –	Requi	res patient informed o	consent	
full sequencing across 27 genes + deletions/duplications	GENE	A A 9,11	4 weeks	£1,100.00
Neurofibromatosis Type 1 – NF1 + SPRED1		res patient informed o		
sequencing + deletions/duplications	GENE	A A 9,11	8 weeks	£925.00
Neurofibromatosis Type 2 (Bilateral Acoustic) – NF2 sequencing + deletions/duplications	GENE	A 9	8 weeks	£905.00
Neuronal Ceroid Lipofuscinosis (Batten Disease) NGS Panel – full sequencing across 13 genes	GENE	A A ⁹	6 weeks	£1,100.00
Non-Invasive Prenatal Testing – common aneuploidy screening from maternal blood	NIPT	J/Special tubes ¹	3-5 days	£295.00
Non-Invasive Prenatal Testing – common aneuploidy screening from maternal blood including 22q11.2 del	NIPQ	J/Special tubes ¹	3-5 days	£385.00
Noonan/LEOPARD/Cardio-Facio-Cutaneous/Costello Syndromes NGS Panel – full sequencing across 20 genes	GENE	A A 9	6 weeks	£1,200.00
Noonan Syndrome Prenatal Screening - PTPN11 exons 3 & 8 only	GENE	CVS/AF	2 weeks	£530.00
Norrie Disease – NDP gene sequencing + deletions/ duplications	GENE	A ⁹	8 weeks	£600.00
NPM1 mutascreen assay	NPM1	A	2 weeks	£310.00
Nystagmus, X-linked Infantile – FRMD7 gene sequencing	GENE	A 9	4 weeks	£700.00
Oculocutaneous Albinism/Hermansky-Pudlak Syndrome/Pigmentation NGS Panel – full sequencing across 30 genes	GENE	A A ⁹	4 weeks	£900.00

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Oculopharyngeal Muscular Dystrophy - PABPN1 repeat analysis	GENE	A 9	4 weeks	£295.00
Optic Atrophy NGS Panel - full sequencing OPA1 + OPA3 genes	GENE	A A 9	4 weeks	£700.00
Osteogenesis Imperfecta NGS Panel – full sequencing COL1A1 + COL1A2 + CRTAP + P3H1 genes	GENE	A A 9	5 weeks	£1,500.00
Ovarian Cancer NGS Panel – full sequencing across 16 genes + deletions/duplications	Requir GENE	es patient informed (consent 4 weeks	£900.00
p53-related cancer predisposition (Li-Fraumeni Syndrome) – TP53 sequencing + MLPA	Requir GENE	es patient informed (consent 6 weeks	£980.00
Pan-Ethnic/Jewish Carrier Screening – see profiles	GENE	A 9	4 weeks	£600.00
Pancreatic Cancer NGS Panel – full sequencing across 22 genes + deletions/duplications	Requir GENE	es patient informed (consent 4 weeks	£1,100.00
Pancreatitis (Hereditary) – PRSS1 hotspot sequencing + deletions/duplications + SPINK1 N34S common mutation	GENE	A 9	8 weeks	£600.00
Paraganglioma/Pheochromocytoma NGS Panel –	Requir	es patient informed (consent	
full sequencing across 11 genes + deletions/duplications	GENE	A A 9,11	4 weeks	£1,100.00
Paternity Testing (postnatal and prenatal) – sample required from each person being tested (3 people)	PATT	AF/CVS 9,11,12 Contact lab	5 days	£640.00 (by exception includes VAT)
Pelizaeus-Merzbacher Disease – PLP1 sequencing + deletions/duplications	GENE	A 9	8 weeks	£700.00
Pendred Syndrome – SLC26A4 gene sequencing	GENE	A 9	4 weeks	£700.00
Periodic Fever/Autoinflammation NGS Panel - full sequencing across 36 genes	GENE	A A 9	6 weeks	£1,600.00
Peutz-Jegher Syndrome - STK11 sequencing + deletions/duplications	GENE	A 9	8 weeks	£900.00
Phelan-McDermid Syndrome – karyotype + FISH	KARY, FISH	CVS/AF/19	12-17 days	£670.00
Pheochromocytoma/Paraganglioma NGS Panel – full sequencing across 11 genes + deletions/duplications	Requir GENE	es patient informed (consent 4 weeks	£1,100.00
Pigmentation/Oculocutaneous Albinism/ Hermansky-Pudlak Syndrome NGS Panel – full sequencing across 30 genes	GENE	A A ⁹	4 weeks	£1,000.00
POLG-Related Disorders – full POLG sequencing + copy number variant	GENE	A 9	5 weeks	£1,175.00
Polycystic Kidney/NGS Panel – full sequencing across 6 genes	GENE	A A 9	6 weeks	£1,600.00
Pontocerebellar Hypoplasia NGS Panel – full sequencing across 9 genes	GENE	A A 9	6 weeks	£1,600.00
Prader-Willi Syndrome (Primary Screen) – methylation PCR	PWAM	A 9	5 days	£385.00
Prenatal Diagnosis for haemoglobinopathies	PND	CVS/ Amniocentesis/ fetal blood	3 days	Contact laboratory

^{*}Prices for tests with the GENE code are as shown and practice discounts do not apply.

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Primary Ciliary Dyskinesia (PCD) NGS Panel – full sequencing of 38 genes	GENE	AA ⁹	6 weeks	£1,600.00
Primary Hyperoxaluria Panel – full sequencing across 3 genes + CNV	GENE	A	6 weeks	£1,060.00
Product of Conception BOBs only - rapid aneuploidy diagnosis for all chromosomes	KB0B	Placental Sample or Solid Tissue 1,9	3-6 days	£205.00
Product of Conception – rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (25 days) – see profiles	PBK	Placental Sample ^{1,9}	5-25 days	£520.00
Prostate Cancer NGS Panel – full sequencing across 12 genes + deletions/duplications	Requi GENE	res patient informed o	consent 4 weeks	£900.00
Protein C Deficiency – PROC Gene Variant Analysis (Known Genotype)	PCMA	(Whole blood 10ml) ⁴⁰	6 weeks	£350.00
Protein C Deficiency – PROC Gene Variant Analysis (Unknown Genotype)	PCMA	(Whole blood 10ml) ⁴⁰	12 weeks	£900.00
Pseudoachondroplasia (Multiple Epiphyseal Dysplasia) – COMP hotspot sequencing	GENE	A 9	8 weeks	£925.00
PTEN-related disorders (including Bannayan-Riley- Ruvalcaba, Cowden & Proteus Syndromes) - sequencing + deletions/duplications	GENE	A A 9,11	8 weeks	£800.00
QF-PCR rapid common aneuploidy screen	APC	AF/A9	1-2 days	£230.00
Recurrent Miscarriage Profile (female) – see profiles	RMP	A A B C C C H 9,18	10-15 days	£950.00
Renal Cysts and Diabetes (RCAD) - HNF-1β sequencing + deletions/duplications	GENE	A 9	8 weeks	£750.00
Renal/Urinary Tract Cancer NGS Panel – full sequencing across 28 genes + deletions/duplications	Requi GENE	res patient informed o	consent 4 weeks	£1,100.00
Retinal Dystrophy/NGS Panel – full sequencing across 537 genes	GENE	A A ⁹	5 weeks	£1,550.00
Retinoblastoma		res patient informed o	consent	
- RB1 sequencing + deletions/duplications	GENE	A A 9,11	8 weeks	£900.00
Rett/Angelman Syndromes NGS Panel - full sequencing across 30 genes	GENE	A A ⁹	6 weeks	£1,600.00
Rett Syndrome (MECP2 gene only)		res patient informed o		
- full sequencing + deletions/duplications	GENE	A 9,11	8 weeks	£755.00
Sanjad-Sakati (Kenny-Caffey) Syndrome - common 12bp TBCE gene deletion	TBC	A 9	10 days	£360.00
Sarcoma NGS Panel – full sequencing across		res patient informed o		
26 genes + deletions/duplications	GENE	A A 9,11	4 weeks	£1,100.00
Short-Chain Acyl-CoA Dehydrogenase Deficiency – ACADS sequencing	GENE	A 9	5 weeks	£900.00
Short Stature – SHOX mutation screening + deletions/duplications	GENE	A 9	8 weeks	£700.00
Silver-Russell Syndrome – methylation studies on 11p15 imprinting domains KvDMR + H19	GENE	A 9	4 weeks	£580.00

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Skeletal Dysplasia NGS Panel - full sequencing across 179 genes	GENE	A A ⁹	6 weeks	£1,600.00
Smith-Lemli-Opitz Syndrome – DHCR7 sequencing	GENE	A 9	8 weeks	£930.00
Smith-Magenis Syndrome - BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/A (1)9	5-15 days	£575.00
Smith-Magenis Syndrome – BoBs only	PB0B	CVS/AF/(A)9	5 days	£205.00
Sotos Syndrome (Cerebral Gigantism) - NSD1 sequencing + deletions/duplications	GENE	A 9	5 weeks	£950.00
Spastic Paraplegia NGS Panel – full sequencing across 262 genes + deletions/duplications + mitochondrial DNA	GENE	A A ⁹	5 weeks	£2,000.00
Spinal Bulbar Muscular Atrophy (Kennedy Disease) – AR repeat analysis	GENE	A ⁹	6 weeks	£270.00
Spinal Muscular Atrophy – SMN1 deletions/duplications	SMA	A 9	10 days	£390.00
Spinocerebellar Ataxia – multiplex SCA1+2+3+6+7+17 common repeat expansions	GENE	A 9	4 weeks	£470.00
Spinocerebellar Ataxia NGS Panel – full sequencing across 4 genes	GENE	A A ⁹	6 weeks	£1,600.00
SRY (Sex-determining Region Y)	SRY	A 9	2 days	£160.00
Stargardt/Macular Dystrophy NGS Panel - full sequencing across 13 genes	GENE	A A ⁹	4 weeks	£750.00
Stickler Syndrome NGS Panel - full sequencing across 6 genes	GENE	AA ⁹	6 weeks	£1,500.00
Systemic mastocystosis - C-Kit common mutation (KIT D816V)	GENE	A 9	4 weeks	£230.00
T cell clonality assay (TCR beta and TCR gamma)	TCRA	(A) or FFPE	2 weeks	£350.00
Tay Sachs Screen – 5 common mutations. See also Pan-Ethnic/Jewish Carrier Profile	GENE	A 9	5 weeks	£450.00
Thrombotic Risk – see profiles	PROP	A A B C C C 1 8	5 days	£690.00
Thyroid Cancer NGS Panel – full sequencing across 7 genes + deletions/duplications	Require GENE	es patient informed (A) (A) (9,11)	consent 4 weeks	£1,100.00
Torsion Dystonia (DYT1) - TOR1A common mutation c.904-906delGAG	GENE	A ⁹	5 weeks	£295.00
Treacher-Collins Syndrome NGS Panel - full sequencing POLR1C + POLR1D + TCOF1	GENE	AA ⁹	6 weeks	£1,500.00
Tuberous Sclerosis – full TSC1 + TSC2 gene sequencing	GENE	A A 9	5 weeks	£950.00
Uni Parental Disomy (UPD) – parents and child – specify chromosome	Specify type	A 9,12	5 days	£470.00
Urinary Tract/Renal Cancer NGS Panel – full sequencing across 28 genes + deletions/duplications	Require GENE	es patient informed	consent 4 weeks	£1,100.00
Usher Syndrome NGS Panel - full sequencing across 19 genes	GENE	AA ⁹	6 weeks	£1,575.00
Very Long-Chain Acyl-CoA Dehydrogenase Deficiency – ACADVL sequencing	GENE	A ⁹	6 weeks	£975.00
Von Hippel-Lindau Syndrome - VHL sequencing + deletions/duplications	GENE	A 9	8 weeks	£975.00

^{*}Prices for tests with the GENE code are as shown and practice discounts do not apply. Turnaround times are quoted as working days.

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Von Willebrands Disease – Type 2 (Ex28) Variant Analysis (VWF) (Known Genotype)	VW2A	(Whole blood 10ml) ⁴⁰	6 weeks	£350.00
Von Willebrands Disease – Type 2 (Ex28) Variant Analysis (VWF) (Unknown Genotype)	VW2A	(Whole blood 10ml) ⁴⁰	12 weeks	£900.00
Von Willebrands Disease – Type 2 VWD Variant Analysis (VWF) (Known Genotype)	2AVW	(Whole blood 10ml) ⁴⁰	6 weeks	£350.00
Von Willebrands Disease – Type 2 VWD Variant Analysis (VWF) (Unknown Genotype)	2AVW	(Whole blood 10ml) ⁴⁰	12 weeks	£900.00
Von Willebrands Disease – Type 2N Variant Analysis (VWF) (Known Genotype)	VW2N	(Whole blood 10ml) ⁴⁰	6 weeks	£350.00
Von Willebrands Disease – Type 2N Variant Analysis (VWF) (Unknown Genotype)	VW2N	(Whole blood 10ml) ⁴⁰	12 weeks	£900.00
Wolf-Hirschhorn Syndrome – BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/A (1)9	5-15 days	£575.00
Wolf-Hirschhorn Syndrome – BOBs only	PB0B	CVS/AF/(A)9	5 days	£205.00
Y chromosome microdeletions - AZFa + AZFb + AZFc + SRY	YDEL	A 9	5 days	£200.00
Zellweger Syndrome NGS Panel – full sequencing across 12 genes	GENE	A A ⁹	6 weeks	£1,600.00
Zygosity testing – comparative DNA profile	DNAC	(From each twin and both parents) ⁹	5 days	£525.00

ARRAY CGH TESTING

Chromosome abnormalities can be associated with developmental delay, autism spectrum disorder, learning difficulties, dysmorphic features and other congenital abnormalities.

Array CGH can detect smaller genetic changes than is possible by conventional karyotyping, and can provide accurate information on the size and possible consequences of the gains (duplications) or losses (deletions) identified. Multiple studies have shown that Array CGH, when applied to appropriate patients, will detect up to three times more pathogenic chromosome imbalances than karyotyping due to its greater precision and sensitivity.

Array CGH testing is now considered to be the front line test for patients presenting with developmental delay (motor or growth), autism spectrum disorder, moderate to severe learning difficulties, dysmorphic features, with or without congenital abnormalities. Consortiums in the USA and many EU countries have adopted Array CGH as the front line test in this patient cohort.

Array CGH is now more frequently used for prenatal studies as an adjunct or replacement for conventional cytogenetic studies, particularly where structural fetal abnormalities are seen at ultrasound scan but also at a patient's or doctor's request. The technique may also be utilised as a follow up test to characterise anomalies detected by a previous study (e.g. an apparently balanced de novo rearrangement or marker chromosome).

When to use Array CGH

In postnatal cases, patients should present with one or more of the following:

- Mental retardation
- Autism/autism spectrum disorder
- Congenital malformations

- Developmental delay
- Dvsmorphic features

In prenatal cases, patients may present with:

 Abnormalities or increased nuchal translucency on ultrasound scan which may be associated with a chromosome imbalance.

Approximately 10-20% of results identify extra or missing DNA which may or may not be relevant to the clinical phenotype, and will require further family studies to assist with interpretation.

What can Array CGH detect?

Deletions and duplications with greater sensitivity than conventional karyotyping.

What does Array CGH not detect?

- Balanced chromosome rearrangements such as translocations or inversions.
 The chromosome location of duplications (this would require additional FISH testing).
- Low frequency mosaicism (<30% abnormal cells), some types of polyploidy like triploidy, Uniparental disomy (UPD) and Fragile X syndrome, imprinting defects, genetic diseases caused by point mutations or multifactorial inheritance.

Further information is provided by the UNIQUE website at www.rarechromo.org

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Postnatal array CGH	CGH	A (1) 9	10 days	£650.00

Blood from both parents may also be provided in case of follow up studies at no extra charge.

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Prenatal array CGH	CGH	Amniotic fluid or CVS ⁹	10 days	£650.00

EDTA and heparin blood from both parents should be provided at the time of prenatal sampling, if possible, in case of follow up studies at no extra charge.

PAN-ETHNIC CARRIER SCREENING

The Fulgent Beacon carrier panel is a comprehensive genetic screen for people of all ethnic backgrounds. The panel analyses more than 300 genes, in which mutations may cause over 440 different recessive disorders. Testing includes Cystic Fibrosis, Sickle Cell Disease, Thalassemia and Spinal Muscular Atrophy. These conditions vary in morbidity, mortality and treatment.

The Beacon carrier screen can also be filtered to report only on diseases common to the Jewish population – such as Bloom Syndrome, Canavan Disease, Gaucher Syndrome and Tay-Sachs Disease.

Indications for use

- Pre-pregnancy screening for couples that wish to check if they are silent carriers for
 a disease that would have serious implications for the future health of any children.
- For patients who are concerned about a family history of a particular disease, where common mutation detections are very high – such as Tay-Sachs Disease.

The report comes with a synopsis of any diseases for which a mutations was found, including prognosis, treatment and mode of inheritance. It includes a risk assessment and recommendations for further testing. A full list of diseases covered by this test is available from the laboratory.





Male patients will not be screened for X-linked conditions. If an X-linked condition is suspected in a male patient please contact the laboratory or a genetics specialist about diagnostic testing for that particular condition.

Limitations

A normal result does not rule out the possibility that the patient carries a rare mutation not detectible by this particular assay. For this reason, this test is also not appropriate to use as a direct prenatal screen (both parents must be confirmed carriers for a particular disease before we can offer prenatal diagnosis). Screening is not designed to detect somatic mutations.

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Pan-Ethnic Carrier Screen	GENE	A 9	4 weeks	£600.00
Jewish Panel Carrier Screen	ASHJ	A 9	4 weeks	£600.00

harmony®

NON-INVASIVE PRENATAL TESTING (NIPT)

The Harmony test is a cell-free DNA-based prenatal blood screen. It is being used in more than 100 countries around the world, and has been used to guide clinical care in over 1.4 million pregnancies. The test can be used in singleton, twin, and egg-donor pregnancies and has been validated for use in pregnant women aged 18 to 48. It can be administered as early as 10 weeks gestation.

The test can screen for:

- Trisomies 21, 18, and 13
- · Sex chromosome aneuploidy
- Monosomy X
- Fetal sex
- 22a11.2 deletion

Patient information

Non-invasive prenatal testing (NIPT) analyses cell-free DNA circulating in a pregnant mother's blood. It is used screen for Down syndrome (trisomy 21) and other common chromosomal conditions (trisomies 18 and 13). Options are also available to screen for X and Y chromosome conditions or for a deletion in chromosome 22011.2.

About the test

DNA from the fetus circulates in the mother's blood. Cell-free DNA (cfDNA) results from the natural breakdown of fetal cells (presumed to be mostly placental) and clears from the maternal system within hours of giving birth.

During a pregnancy, cfDNA can be tested to give the most accurate screening approach in estimating the risk of a fetus having a common chromosome condition sometimes called a trisomy. This occurs when there are three copies of a particular chromosome instead of the expected two. The test looks to detect the following conditions:

 Trisomy 21 is the most common trisomy at the time of birth. Also called Down syndrome, it is associated with moderate to severe intellectual disabilities and may also lead to digestive disease, congenital heart defects and other malformations.

- Trisomy 18 (Edwards syndrome) and Trisomy 13
 (Patau syndrome) are associated with a high rate
 of miscarriage. These babies are born with severe
 brain abnormalities and often have congenital heart
 defects as well as other birth defects. Most affected
 individuals die before or soon after birth, and very
 few survive bevond the first year of life.
- Sex chromosome conditions occur when there
 is a missing, extra, or incomplete copy of the X
 or Y chromosomes. The Harmony test with sex
 chromosome aneuploidy panel option can assess risk
 for XXX, XYY, XXYY, XXYY (Klinefelter syndrome), and
 a missing X chromosome in a girl (Turner syndrome).

Options are also available to look for Turner syndrome only (and not the other sex chromosome conditions), and/or to look for a deletion in chromosome 22q11.2. If the mother is interested in having this optional testing, she should talk with her healthcare provider to determine if it is right for her. This option is not available for twin pregnancies.

Risk

The testing is non-invasive: it involves taking a blood sample from the mother. The pregnancy is not put at risk of miscarriage, or from other adverse outcomes that are associated with invasive testing procedures such as amniocentesis.

Accuracy

A 'high probability' result is indicative of a high probability for a trisomy. In singleton pregnancies, the test identifies more than 99% of fetuses with trisomy 21, 97% of fetuses with trisomy 18, 94% of fetuses with trisomy 13, and 96% of fetuses with Turner syndrome. X and Y analysis provides >99% accuracy for fetal sex. Accuracy for detecting other sex chromosome anomalies varies by condition.

After the test, less than 1% of women need to have a CVS or an amniocentesis procedure.

The Harmony test is considered a prenatal screening test, not a diagnostic test. So if the test results show there is a high risk of the fetus having trisomy 21, 18, 13 or a sex chromosome condition, it does not mean that the fetus definitely has one of these conditions — although it is highly likely. For this reason, in the event of a 'high risk' (or positive) result, follow-up testing by an invasive procedure is recommended.

In the same way, if the test results show a 'low probability' of the fetus having trisomy 21, 18, 13 or a sex chromosome condition, it is unlikely that the fetus has one of these conditions. However, there is a very small risk that not all trisomic fetuses will be detected.

Who can have this test?

The Harmony test can be ordered by healthcare professionals for women with pregnancies of at least 10 weeks' gestational age. This test can be requested for any singleton or twin pregnancy, including those conceived naturally or by IVF using the patient's own egg or a donor egg. Note that, in twin pregnancies, sex chromosome (X and Y) analysis can determine fetal sex but not sex chromosome conditions. The Harmony test also does not assess risk for mosaicism, partial trisomies or translocations.

Results will be ready in approximately 3-5 days.

Women still can have their 12-week scan for a
detailed examination of the fetal anatomy, including
measurement of nuchal translucency, nasal bone and
other important factors. In this visit, patients can discuss
the DNA and ultrasound results with their obstetricians.

On the basis of the NIPT result and the ultrasound findings, a patient can decide whether or not she wants to have an invasive procedure (for example, CVS or amniocentesis).

Repeat samples

There needs to be enough fetal DNA in the maternal blood to be able to provide a result. If there is insufficient fetal DNA in the sample (which occurs in 3% of cases), another blood sample from the mother may be required. This will be processed in the laboratory at no extra charge.

What is the process?

Once the mother has taken an independent personal decision that she wants to have the NIPT performed, she will be asked to sign a consent form and her blood sample can be taken from a vein in her arm.



Who carries out the analysis of the test?

Her sample and completed request form need to be sent to TDL Genetics, where the Harmony test is performed on the DNA extracted from her blood sample.

Will the mother need to have any other tests?

The Harmony test does not provide information on mosaicism, partial trisomies or translocations, or other rare chromosomal abnormalities. If the ultrasound scan shows a high nuchal translucency or other major physical defects such as brain abnormalities, heart abnormalities, the risk for some rare chromosomal defects may be high. In such cases, the mother may choose to have a CVS or an amniocentesis.

The non-invasive prenatal test does not provide information on other physical defects such as spina bifida, or information on fetal growth. It is therefore advisable that the mother has all the usual ultrasound scans during her pregnancy.

Sample stability

Samples must be taken in special tubes provided by the laboratory. These samples must not be refrigerated, but stored at ambient temperature protected by the gel packs provided. The lab must receive the samples within 7 days to allow testing to proceed.

TEST	CODE	SAMPLE REQS	TAT	PRICE*
Non-Invasive Prenatal Testing – common aneuploidy screening from maternal blood	NIPT	Two 10ml tubes of maternal blood – special tubes provided by the laboratory	3-5 days	£295.00
Non-Invasive Prenatal Testing – common aneuploidy screening from maternal blood including 22q11.2 del	NIPQ	Two 10ml tubes of maternal blood – special tubes provided by the laboratory	3-5 days	£385.00

220 DELETION SCREENING

TDL Genetics will include 22q11.2 deletion, if requested as an additional option in the Harmony prenatal test menu. 22q11.2 deletion is the underlying cause of conditions described as DiGeorge syndrome and velocardiofacial syndrome (VCFS).

Why is 22q11.2 being included in the Harmony test (and not other microdeletion syndromes)?

- The 22q11.2 deletion has been carefully chosen as the only clinically relevant microdeletion syndrome to include with NIPT.
- 22q11.2 deletion is the most common chromosomal microdeletion, occurring in up to 1 in 1000 pregnancies.
- Other microdeletion syndromes have a much lower incidence and would increase the false positive rate of the test.

What is the performance of the 22q.11.2 addition?

- Inclusion of 22q11.2 deletion is aimed at a screening population, the test has been shown to identify 75% of pregnancies with a 22q11.2 deletion. Therefore, pregnancies with a known higher risk of 22q11.2 deletion, whether ascertained through ultrasound scan or family history should consider invasive diagnostic testing as this test will not identify 1 in 4 (25%) of cases.
- There is a false-positive rate of up to 0.5% associated with the 22q11.2 part of the Harmony test.
 This means that in 200 women with a pregnancy unaffected by 22q11.2 deletion 199 will receive a low probability result and 1 will receive a high probability result.

What is the benefit of finding out that a pregnancy has a high probability of a 22q11.2 deletion?

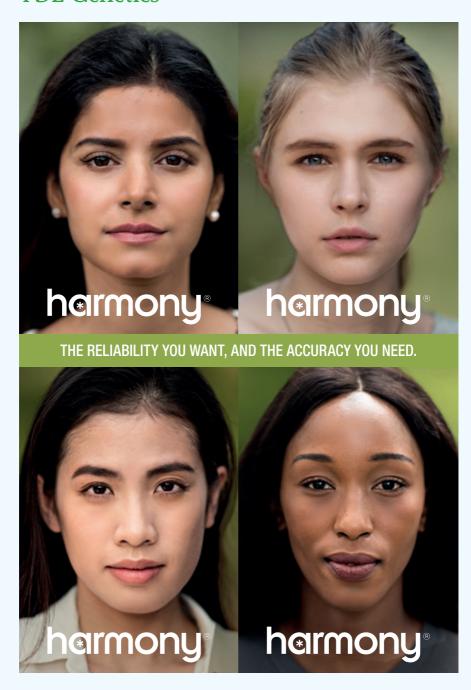
- Early screening and diagnosis of 22q11.2 deletions affects pregnancy management.
- Following confirmatory diagnosis of 22q.11.2 deletion the following may be recommended:
 - Level II ultrasound with fetal echocardiogram to evaluate for anomalies such as congenital heart defect and cleft palate.
 - Screening for and coordinated management of associated conditions.
 - · Delivery at a tertiary care centre.

How do I request the 22q11.2 additional test option?

- Our updated request forms include the option of selecting 22q11.2 deletion. Tick this box if this is required.
- The 22q11.2 deletion cannot be requested in twin pregnancies or in pregnancies where the mother has a 22q11.2 duplication or deletion.
- There is an additional charge for 22q11.2 deletion.
- When discussing the informed consent for the Harmony test with your patient you must ensure they have read all the information on the reverse of the request form including the additional section headed 'What are the limitations of the Harmony prenatal test for 22q11.2?'

If 22q11.2 deletion is detected, we will undertake a confirmatory aCGH (microarray) on a CVS or Amnio, if undertaken, at no additional charge.

If you would like any further information about the 22q11.2 test please contact us at TDL Genetics by phone 020 7307 7409 or email harmony@tdlgenetics.com



MALE GENETIC REPRODUCTIVE PROFILE

Chromosome Analysis Y-Chromosome Microdeletions Cystic Fibrosis Carrier Screen (139 common mutations) PolyT (5T,7T,9T) if clinically indicated

> 10-15 DAYS

£740.00 **GRP**



THROMBOTIC RISK PROFILE

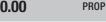
FBC Coagulation Profile Antithrombin III Factor V Leiden

Common Mutation Factor II Prothrombin Common Mutation MTHFR Common Variants Lupus Anticoagulant Protein C Free Protein S Aa

TAT 5 DAYS

£690.00

Anticardiolipin Abs





A B C C C ¹⁸

FBC Anticardiolipin Antibodies Factor II Prothrombin Mutation (G20210A) Factor V Leiden Mutation (G1691A)

5 DAYS

£230.00 DVT1



PAN-ETHNIC CARRIER SCREEN

2000+ Common Mutations across 250+ Diseases*

includes 20+ X-linked Diseases and 60+ Jewish Panel Diseases



£600.00

GENE



JEWISH CARRIER SCREEN

60+ Jewish Panel Diseases*

uses the same technology as the Pan-Ethnic Carrier Screen, but filters results to only report on mutations commonly seen in the Jewish Population

> TAT 4 WEEKS

£600.00

ASHJ



Disease list available from the Laboratory

IRON OVERLOAD PROFILE

Iron Total Iron Binding Capacity Ferritin Haemochromatosis C282Y, H63D

£245.00 10P



RECURRENT MISCARRIAGE **PROFILE (FEMALE)**

FBC Coagulation Profile Antithrombin III Factor V Leiden

Common Mutation Factor II Prothrombin Common Mutation MTHFR Common Variants Fibrinogen Lupus Anticoagulant Protein C Free Protein SAg Anticardiolipin Abs

Please request Partner's Chromosome Analysis using a separate request form.

Chromosome Analysis



£950.00

RMP











PRENATAL DIAGNOSIS (BOBS + CULTURE)

Rapid Aneuploidy Diagnosis for All Chromosomes + Common Microdeletion Syndromes by BOBs Analysis TAT

Chromosome Analysis (Karvotype)

DAYS 15 DAYS

3-5

£520.00 ABK or CBK

AF/CVS9

PRODUCTS OF CONCEPTION (BOBS + CULTURE)

Rapid Aneuploidy Diagnosis for all Chromosomes by BOBs Analysis

Chromosome Analysis

DAYS 25 DAYS

(Karyotype) £520.00

PBK

Placental sample 1,9



In-vivo tests

These tests, ideally, must be carried out by appointment. Please telephone 020 7307 7383 for details, information for patient preparation, and appointment times. Sample taking fees for Extended tests are charged at £98.00 per visit.

EXTENDED TESTING

- 50g liquid glucose is consumed for the glucose challenge test/Mini-GTT.
- 75g liquid glucose is consumed for all other glucose tests.
- Each sample tube must be labelled with time of collection.

GLUCOSE TOLERANCE TESTS						
TEST	CODE	SAMPLE REQS	COLLECTION TIME (MINUTES POST-GLUCOSE)	TAT	PRICE	
Glucose Challenge Test/Mini-GTT	RBGM	G	1 at 60 mins (50gm glucose)	1 day	£26.00	
Glucose Tolerance Test/OGTT	GTT	3x © 3x RU	1 each at 0, 60 and 120 mins (75gm glucose load)	1 day	£129.00	
Glucose Tolerance with Insulin	GTTI	3x ⓑ 3x ⓒ 3x RU	1 each at 0, 60 and 120 mins	1 day	£324.00	
Glucose Tolerance with Growth Hormone	GTT+GHDF	3x ⓑ ³⁵ 3x ⓒ 3x RU	1 each at 0, 60 and 120 mins	1 day	£216.00	
Glucose Tolerance Test (Short)	GTTS	2x © 2x RU	1 each at 0 and 120 mins	1 day	£82.00	
Glucose Tolerance Test (Extended)	GTTE	5xG 5xRU	1 each at 0, 30, 60, 90 and 120 mins	1 day	£113.00	
Glucose Tolerance Test (Extended Plus)	GTTX	7x G 7x RU	1 each at 0, 30, 60, 90, 120, 150 and 180 mins	1 day	£113.00	

EXTENDED TESTS					
TEST	CODE	SAMPLE REQS	COLLECTION TIME (MINUTES POST-GLUCOSE)	TAT	PRICE
Lactose Tolerance Test	LTT	By appointment only	Contact 020 7025 7997 (Phlebotomy)	1 day	£124.00
Synacthen Stimulation Test	SYNA	By appointment only	Contact 020 7025 7997 (Phlebotomy)	1 day	£216.00

ANTIBIOTIC ASSAYS					
TEST	CODE	SAMPLE REQS	TAT	PRICE	
Amikacin Level (State dose)	AMIK	B ⁴	4 hours	£98.00	
Gentamicin Assay	GENT	B 4	4 hours	£93.00	
Metronidazole Level	METR	B 4	7 days	£82.00	
Teicoplanin Assay	TEIC	B	5 days	£98.00	
Tobramycin Assay (Provide Clinical Details)	TOBR	В	3 days	£175.00	
Vancomycin Hydrochloride	VANC	B	4 hours	£77.00	

Therapeutic drug assays

There are three different collection times for Therapeutic Drug Monitoring:

TROUGH LEVEL Blood should be collected just before the next dose. Trough Levels

check that the appropriate drug concentration is being maintained.

PEAK LEVELS Sample collection time is dependent on specific drug type and method of

administration. Peak levels check that the drug level is not in the toxic range.

SUSPECTED TOXICITY Blood can be collected any time.

All collections should have the following noted on the request form:

Dosage schedule including the amount and frequency and time of the last dose

· Time of specimen collection

· Clinical status of patient (e.g. routine, suspected toxicity)

· Name(s) of other drugs being taken by the patient

TEST	CODE	SAMPLE REQS	TAT	PRICE
Amitriptyline	AMTR	A 4	5 days	£93.00
Anafranil (Clomipramine)	CHLO	A	7 days	£98.00
Carbamazepine (Tegretol)	CARB	B	4 hours	£52.00
Clobazam	CLOB	A	5 days	£98.00
Clomipramine (Anafranil)	CHLO	A	7 days	£98.00
Clonazepam	CLON	A	7 days	£88.00
Diazepam (Valium)	DIAZ	A	7 days	£88.00
Digoxin	DIGO	B	4 hours	£72.00
Epanutin (Phenytoin)	PHEN	B	4 hours	£52.00
Erythropoietin	ERY	B	4 days	£74.00
Ethosuximide	ETH0	A	7 days	£62.00
FK506 (Tacrolimus/Prograf)	FK5	A 4	1-2 days	£113.00
Flecainide (Tambocor)	FLEC	A	5 days	£103.00
Fluoxetine (Prozac)	PR0Z	A 4	5 days	£103.00
Gabapentin	GABA	B 4	5 days	£82.00
Imipramine	IMIP	A ⁴	4 days	£82.00
Lamotrigine	LAM0	B 4	5 days	£98.00
Levetiracetam (Keppra)	LEVE	B 4	3 days	£103.00
Lithium (take 12 hours after dose)	LITH	B	4 hours	£41.00
Lorazepam	LORA	A 4	10 days	£57.00
Methotrexate	METX	В	2 days	£118.00
Mycophenolic Acid (Cellcept)	MYCP	A	5 days	£118.00
Mysoline (Primidone)	PRIM	B 4	3 days	£62.00
Olanzapine	OLAN	A ⁴	5 days	£103.00
Paracetamol	PARA	B	4 hours	£98.00
Phenobarbitone	PHB	B	4 hours	£52.00
Phenytoin (Epanutin)	PHEN	B	4 hours	£52.00
Primidone (Mysoline)	PRIM	B 4	3 days	£62.00

Therapeutic drug assays

TEST	CODE	SAMPLE REQS	TAT	PRICE
Propanalol	PR0	B 4	7 days	£93.00
Risperidone	RISP	A 4	7 days	£160.00
Sinequan (Doxepin)	DOXE	A	10 days	£98.00
Sirolimus	SIR0	A	3 days	£108.00
Streptomycin Levels	STRM	(5 days	£139.00
Sulpiride	SULP	B 4	4 days	£98.00
Tacrolimus/Prograf (FK506)	FK5	A 4	1-2 days	£113.00
Tegretol (Carbamazepine)	CARB	В	4 hours	£52.00
Temazepam	TEMA	B 4	4 days	£108.00
Theophylline	THE0	B	4 hours	£46.00
Topiramate (Topamax)	TOPI	B 4	4 days	£93.00
Trimipramine	TRIM	A	5 days	£77.00
Valium (Diazepam)	DIAZ	A	7 days	00.88£
Valproic Acid (Epilim)	VALP	В	4 hours	£46.00
Vigabatrin (Sabril)	VIGA	A	10 days	£93.00

Allergy, Asthma and Autoimmune diseases are increasing around the world, especially in industrialised countries and affect all ages. Since every country has their own dietary habits there are noteworthy differences in the allergens causing food allergy.



UK PROFILE

Total IgE plus:

Food Mix inc.

Cod, Cows Milk, Egg White, Soya Bean, Peanut, Wheat

Grass Mix inc.

Cocksfoot, Meadow Fescue, Meadow, Rye, Timothy

Cat Dander

Cladosporium Herbarum Dog Dander House Dust Mite

Latex

Fish: Cod



£164.00 **ALUK**



MEDITERRANEAN PROFILE

Total IgE plus:

A. alternata Cat Epithelium and Dander Cows Milk

Egg White

House Dust Mite

(Dermatophagoides pteronyssinus and

Dermatophagoides farinae)

Olive

Peanut

Rye-grass **Timothy Grass**



£141.00 ALMD

MIDDLE EAST PROFILE

Total IgE plus:

Food Mix inc.

Cod, Cows Milk, Egg White, Soya Bean, Peanut, Wheat

Fish: Cod

Dust Mix inc.

House Dust Mite. Dermatophagoides

pteronyssinus,

Dermatophagoides farinae,

Blatella germanica



£130.00

ALME





TEST	CODE	SAMPLE REQS	TAT	PRICE
Allergy – Individual Allergens See list on page 133	ALLE	B	2 days	£33.00
Total IgE	IGE	В	1 day	£48.00
Allergy Profile (UK)	ALUK	В	2 days	£164.00
Allergy Profile (Mediterranean)	ALMD	В	2 days	£141.00
Allergy Profile (Middle East)	ALME	В	2 days	£130.00
Allergy Profile 1 (Food & Inhalants)	1A	BB	2 days	£470.00
Allergy Profile 2 (Inhalants)	2A	B	2 days	£259.00
Allergy Profile 3 (Food)	3A	B	2 days	£234.00
Allergy Profile 4 (Nuts & Seeds)	4A	В	2 days	£332.00
Allergy Profile 5 (Children's Panel)	5A	В	2 days	£234.00
Allergy Profile 6 (Shellfish)	6A	B	2 days	£211.00
Allergy Profile 7 (Finfish)	7A	B	2 days	£211.00
Allergy Profile 8 (Cereal – singles)	8A	В	2 days	£123.00
Allergy Profile 9 (Antibiotics)	9A	В	2 days	£96.00
Allergy Profile 10 (Insects)	10A	В	2 days	£150.00
Allergy Profile 11 (Combined Shellfish/Finfish)	11A	В	2 days	£169.00
Allergy Profile 12 (Milk & Milk Proteins)	12A	В	2 days	£186.00
Allergy Profile 13 (Stone fruit/Rosaceae family)	13A	В	2 days	£186.00
Eczema Provoking Profile	ALEC	В	2 days	£186.00
Gluten Allergy Profile	GLUT	ABB	10 days	£300.00
Rhinitis Provoking Profile	ALRN	B	2 days	£186.00
Tryptase	STRY	В	2 days	£127.00
Allergen Component Profiles See page 137				
Histamine Releasing Urticaria Test	CURT	В	10-14 days	£138.00
ISAC Panel	ISAC	В	3 days	£394.00
Prealbumin	PALB	B	3 days	£72.00

(9 Allergens)		
Milk Peanut Soya Bean Wheat		
ALEC		

ECZEMA DROVOKING DROEILE

(10 Allergens)		
Total IgE with	Milk	
individual IgE	Nettle	
allergens for:	Peanut	
Birch	Timothy Grass	
Cat Dander		
Dog Dander		

RHINITIS PROVOKING PROFILE

Dog Dander Egg White Egg Yolk House Dust Mite

£186.00

B

TAT 2 DAYS

GLUTEN ALLERGY PROFILE

Gluten single IgE Allergen Endomysial antibodies IgA Deamidated gliadin IgG antibodies Tissue transglutaminase IgA

I issue transglutaminase IgA HLA DQ2/DQ8 Total IgA

TAT 10 DAYS

GLUT

£300.00

ABB

B

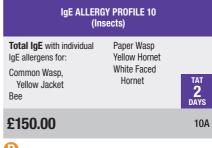
IgE ALLERGY PROFILE 1 IgE ALLERGY PROFILE 3 (Food and inhalants) (Food) Total IgE with individual Eaa Yolk Total IgE with individual Tree Mix. inc. Kiwi IgE allergens for: IgE allergens for: Box Elder Peanut Common Silverbirch Codfish Grass Mix. inc. Sesame Hazel Cows Milk TAT 2 DAYS Cocksfoot 0ak Sova Eaa White Meadow Fescue Wheat London Plane Meadow Maple Rve £234.00 3A Svcamore Timothy Single Allergens (19) Weed Mix, inc. ß Beef Common Ragweed Bermuda Grass Giant Ragweed Cat Dander **IgE ALLERGY PROFILE 4** Western Ragweed Clam (Nuts and Seeds) Dust Mix. inc. Common Silver Birch Blatella germanica Total IgE with individual Pecan Cows Milk Dermatophagoides IgE allergens for: Pine Nut Crah pteronyssinus Pistachio Dog Dander Almond Dermatophagoides Poppy Seed Eaa White Brazil Nut farinae Pumpkin Seed Eaa Yolk Cashew Hollister-Stier Labs Fish (Cod) Sesame Seed Hazel Nut TAT 2 DAYS Mould Mix, inc. Sunflower Seed Hazel Nut Macadamia Nut Walnut A. alternata Horse Dander Peanut Aspergillus fumigatus Latex Candida albicans Nettle £332.00 4A Cladosporium herbarum Peanut Helminthosporium Shrimp/Prawn ß halodes Soya Bean TAT 2 DAYS Penicillium notatum Wheat **IgE ALLERGY PROFILE 5** (Children's Panel) £470.00 1A Total IgE with individual Mite, Pteronyssinus IgE allergens for: Peanut $\mathbf{B}\mathbf{B}$ Sova Bean Cat Dander Timothy Grass Cows Milk **IgE ALLERGY PROFILE 2** TAT 2 DAYS Wheat Flour Egg White (Inhalants) Eaa Yolk Total IgE with individual Common Ragweed £234.00 5A IgE allergens for: Derma farinae Dog Dander Alternaria House Dust Mite ß Aspergillus Horse Dander Birch Pollen TAT 2 DAYS **Timothy Grass** Cat Dander IMMUNOCAP ISAC PANEL Cladosporium Simultaneous measurement in a single test of specific £259.00 2A antibodies to more than one hundred allergen TAT components from more than 50 preselected 3 ß allergen sources. DAYS

£394.00

ß

ISAC

IgE ALLERGY PROFILE 6 (Shellfish) Total IgE with individual Lobster IgE allergens for: Octopus Clam Prawns/Shrimp Crab Scallop Scallop Crawfish/Crayfish Squid E211.00 6A



B

IgE ALLERGY PROFILE 7 (Finfish)		
Total IgE with individual IgE allergens for: Codfish Mackerel Plaice	Sardine/Pilchard Salmon Sole Swordfish Tuna	TAT 2 DAYS
£211.00		7A



B

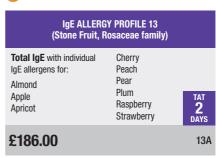
lgE ALLERGY PROFILE 8 (Cereal – singles)	
Total IgE with individual IgE allergens for:	
Barley Oat	TAT
Rye Wheat	2 DAYS
£123.00	8A



B

B

IgE ALLERGY PROFILE 9 (Antibiotics)	
Total IgE with individual IgE allergens for: Cefaclor Pen G	TAT
Pen V	2 DAYS
£96.00	9A





Allergens, when requested individually are priced as single tests, sample 1 x (i) (up to 5 allergens). Protein allergens are manufactured by Thermofisher (Phadia) and are lot specific.

GRASS POLLENS Bahia grass g17 Barley q201 Bermuda grass g2 Brome grass q11 Canary grass g71 Cocksfoot a3 Common reed q7 Cultivated oat q14 Cultivated rye g12 Cultivated wheat q15 Johnson grass q10 Maize, Corn g202 Meadow fescue q4 Meadow foxtail q16 Meadow grass, Kentucky blue q8 Redtop, Bentgrass q9 Rye-grass g5

Wild rye grass g70
WEED POLLENS

Timothy grass g6

Velvet grass g13

Sweet vernal grass q1

Alfalfa w45
Camomile w206
Careless weed w82
Cocklebur w13
Common pigweed w14
Common ragweed w1
Dandelion w8
Dog fennel w46
False ragweed w4
Firebush (Kochia) w17
Giant ragweed w3
Goldenrod w12
Goosefoot.

Lamb's quarters w10 Japanese Hop w22 Lupin w207

Marguerite, Ox-eye daisy w7

Mugwort w6 Nettle w20

Parietaria officinalis w19 Parietaria iudaica w21 Plantain (English), Ribwort w9 Rape w203

Rough marshelder w16 Saltwort (prickly),

Russian thistle w11

Scale, Lenscale w15

Sheep sorrel w18 Sunflower w204

Wall pellitory w19 Wall pellitory w21

Western ragweed w2 Wormwood w5 Yellow dock w23

TREE POLLENS

Acacia t19

American beech t5 Australian pine t73 Bald cypress t37 Bayberry t56 Box-elder t1 Cedar t212 Cedar elm t45 Chestnut t206

Common silver birch t3

Cottonwood t14 Cypress t222 Date t214 Douglas fir t207 Elder t205 Flm t8

Eucalyptus, Gum-tree t18

European ash t25 Grey alder t2 Hackberry t44 Hazel t4 Horn beam t209

Horse chestnut t203 Italian/Mediterranean/ Funeral cypress t23

Japanese cedar t17 Linden t208

Maple leaf sycamore, London plane t11

Melaleuca, Cajeput-tree t21

Mesquite t20

Mountain juniper t6

Mulberry t70 Oak t7

Oil Palm t223 Olive t9

Paloverde t219 Pecan, Hickory t22

Peppertree t217 Pine t213

Privet t210

Queen palm t72 Red cedar t57

Red mulberry t71

Scotch broom t55 Spruce t201

Sweet gum t211 Walnut t10

White ash t15
White hickory t41

White pine t16
Willow t12

Virginia live oak t218

MICROORGANISMS

Acremonium kiliense m202 Alternaria alternata m6 Aspergillus flavus m228 Aspergillus fumigatus m3 Aspergillus niger m207 Aspergillus terreus m36 Aureobasidium pullulans m12

Botrytis cinerea m7
Candida albicans m5

Chaetomium globosum m208 Cladosporium herbarum m2

Curvularia lunata m16 Epicoccum purpurascens m14

Fusarium proliferatum

(F. moniliforme) m9 Setomelanomma rostrata

(Helminthosporium halodes) m8

Malassezia spp. m227 Mucor racemosus m4 Penicillium chrysogenum

(P. notatum) m1 Penicillium glabrum m209

Phoma betae m13 Rhizopus nigricans m11 Staphylococcal enterotoxin A m80 Staphylococcal enterotoxin B m81 Staphylococcal enterotoxin C m223 Staphylococcal enterotoxin TSST m226 Stemphylium herbarum (S. botryosum) m10 Tilletia tritici m201 Trichoderma viride m15 Trichophyton mentagrophytes var. qoetzii m210 Trichophyton mentagrophytes var. interdiaitale m211 Trichophyton rubrum m205

EPIDERMALS AND

Ulocladium chartarum m204

ANIMAL PROTEINS Budgerigar droppings e77 Budgerigar feathers e78 Camel dander u328 Canary bird droppings e200 Canary bird feathers e201 Cat dander e1 Chicken droppings e218 Chicken feathers e85 Chicken, serum proteins e219 Chinchilla epithelium e208 Cow dander e4 Deer epithelium e216 Dog dander e5 Duck feathers e86 Ferret epithelium e217 Finch feathers e214 Fox epithelium e210 Gerbil epithelium e209 Goat epithelium e80

Goose feathers e70

Guinea pig epithelium e6

Hamster epithelium e84

Horse dander e3 Mink epithelium e203

Mouse epithelium e71 Mouse epithelium,

serum proteins and urine proteins e88

Mouse serum proteins e76 Mouse urine proteins e72 Parakeet droppings e197 Parakeet serum e198 Parrot feathers e213 Pigeon droppings e7 Pigeon feathers e215 Rabbit epithelium e82 Rabbit, serum proteins e206 Rabbit, urine proteins e211 Rat epithelium e73 Rat epithelium, serum proteins and urine proteins e87 Rat serum proteins e75 Rat urine proteins e74 Reindeer epithelium e202

Sheep epithelium e81

Swine epithelium e83

Turkey feathers e89

MITES

Acarus siro (Storage mite) d70 Blomia tropicalis (House dust mite) d201 Dermatophagoides farinae (House dust mite) d2 Dermatophagoides microceras (House dust mite) d3 Dermatophagoides pteronyssinus (House dust mite) d1 Euroglyphus maynei (House dust mite) d74 Glycyphagus domesticus (Storage mite) d73 Lepidoglyphus destructor (Storage mite) d71 Tyrophagus putrescentiae (Storage mite) d72

ALLERGEN COMPONENTS

nDer p 1 House dust mite d202 rDer p 2 House dust mite d203 rDer p 10 Tropomyosin, House dust mite d205

HOUSE DUST

Greer Labs., Inc. h1 Hollister-Stier Labs. h2

INSECTS

Berlin beetle i76 Blood worm i73 Cockroach, American i206 Cockroach, German i6 Cockroach, Oriental i207 Fire ant i70 Grain weevil i202 Green nimitti i72 Horse flv i204 Mediterranean flour moth i203 Mosquito i71 Moth i8

VENOMS

Bumblebee i205 Common wasp (Yellow jacket i3 European Paper Wasp i77 European hornet i75 Honey bee i1 Paper wasp i4 White-faced hornet i2 Yellow hornet i5

DRUGS

Amoxicilloyl c6 Ampicillovl c5 Cefaclor c7 Chlorhexidine c8 Gelatin bovine c74 Insulin human c73 Penicilloyl G c1 PenicillovI V c2 Pholcodine c261 Morphine c260 Suxamethonium (succinylcholine) c202

Ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of collection. Turnaround times are quoted as working days.

OCCUPATIONAL Carrot f31 Chick pea f309 Cauliflower f291 Bougainvillea k214 Coconut f36 Cotton seed k83 Celery f85 Common millet f55 Ethylene oxide k78 Cherry f242 Fenugreek f305 Ficus k81 Cucumber f244 Foxtail millet f56 Formaldehyde/Formalin k80 Date f289 Gluten f79 Green coffee bean k70 Fennel, fresh f276 Green bean f315 Hazel nut f17 Hexahydrophtalic anhydrid k209 Fig f328 Isocyanate HDI (Hexamethylene Garlic f47 Lentil f235 Grape f259 Lima bean f182 diisocyanate) k77 Isocyanate MDI (Diphenylmethane Grapefruit f209 Linseed f333 Guava f292 diisocyanate) k76 Lupin seed f335 Jack fruit f318 Isocvanate TDI (Toluene Macadamia nut f345 diisocyanate) k75 Jujube f336 Maize, Corn f8 Kiwi f84 Oat f7 Ispaghula k72 Latex k82 Lemon f208 Pea f12 Methyltetrahydrophtalic Lettuce f215 Peanut f13 Pecan nut f201 anhydrid k211 Lime f306 Phthalic anhydride k79 Mandarin (tangerine, clementine, Pine nut. pianoles f253 Silk k74 satsumas) f302 Pistachio f203 Silk waste k73 Mango f91 Poppy seed f224 Sunflower seed k84 Melon f87 Pumpkin seed f226 Trimellitic anhydride, TMA k86 Olive (black, fresh) f342 Quinoa f347 Onion f48 Rape seed f316 **PARASITES** Orange f33 Red kidney bean f287 Anisakis p4 Papaya f293 Rice f9 Ascaris p1 Passion fruit f294 Rve f5 Sesame seed f10 Echinococcus p2 Peach f95 Pear f94 Sovbean f14 MISCELLANEOUS Persimon (kaki fruit, sharon) f301 Spelt wheat f124 Cotton, crude fibers o1 Pineapple f210 Sugar-beet seed f227 Mealworm o211 Plum f255 Sweet chestnut f299 MUXF3 CCD, Bromelain o214 Potato f35 Walnut f256 Seminal fluid o70 Pumpkin f225 Wheat f4 Streptavidin o212 Raspberry f343 White bean f15 Red currant f322 **FOODS - FRUITS & VEGETABLES** Spinach f214 FOODS - SPICES Apple f49 Strawberry f44 Allspice f339 Apricot f237 Sweet potato f54 Anise f271 Asparagus f261 Tomato f25 Basil f269 Watermelon f329 Aubergine, eggplant f262 Bay leaf f278 Avocado f96 Black pepper f280 FOODS - SEED.

Bamboo shoot f51 Banana f92 Beetroot f319 Blackberry f211 Blueberry f288 Broccoli f260 Brussel sprouts f217 Cabbage f216

LEGUMES & NUTS Almond f20 Barlev f6 Blue vetch f310

Brazil nut f18 Buckwheat f11 Cashew nut f202 Caraway f265 Cardamon f267 Chilipepper f279 Clove f268 Coriander f317 Curry (Santa Maria) f281

Dill f277 Ginger f270

Green pepper (unripe seed) f263

Lovage f275 Mace f266 Marjoram f274

Mint f332

Mustard f89 Oregano f283

Paprika, Sweet pepper f218

Parsley f86 Tarragon f272 Thyme f273 Vanilla f234

FOODS - FISH, SHELLFISH & MOLLUSCS

Abalone f346 Anchovy f313 Blue mussel f37 Cat fish f369 Chub mackerel f50

Clam f207 Crab f23 Cravfish f320 Eel f264

Fish (cod) f3

Grouper f410 Gulf flounder f147

Haddock f42 Hake f307 Halibut f303

Herring f205

Jack mackerel, Scad f60 Langust (spiny lobster) f304

Lobster f80 Mackerel f206 Mearim f311 Octopus f59 Orange roughy f412 Ovster f290 Pacific squid f58 Plaice f254

Red snapper f381 Salmon f41

Pollock f413

Sardine (Pilchard) f308

Sardine, Japanese Pilchard f61

Scallop f338 Shrimp f24 Snail f314

Sole f337 Squid f258 Swordfish f312

Tilapia f414 Trout f204 Tuna f40

Walleye pike f415 Whitefish (Inconnu) f384

FOODS - EGG & FOWL

Chicken f83 Eaa f245 Egg white f1 Egg volk f75 Turkey meat f284

FOODS - MEAT

Beef f27

Elk/moose meat f285

Mutton f88 Pork f26 Rabbit f213

FOODS - MILK

Cheese, cheddar type f81 Cheese, mold type f82 Cow's whey f236 Goat milk f300 Mare's milk f286 Milk f2

Milk, boiled f231 Sheep milk f325 Sheep whey f326

FOODS - ADDITIVES

Carob (E410) f296

Guar, quar qum (E412) f246 Gum arabic (E414) f297 Tragacanth (E413) f298 Cochineal extract

(Carmine red) (E120) f340

FOODS - MISCELLANEOUS

Cacao f93 Coffee f221 Honey f247

Hop (fruit cone) f324

Malt f90

Mushroom (champignon) f212

Tea f222 Yeast f45

Allergy

COMPONENT TESTING

Using ImmunoCAP Allergen Components can help refine the understanding of sensitisation, by assessing a person's sensitisation pattern at the molecular level. When used in conjunction with traditional extract-based IgE testing, these provide information at the individual component level.

For more information, please contact the Immunology Department on 020 7025 7917.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Alpha Gal Components (related to red meat)	ZZ37	B	2 days	£56.00
Alternaria Components	ZZ1	B	2 days	£56.00
Apple Components	ZZ36	B	2 days	£83.00
Aspergillus Components	ZZ2	B	2 days	£164.00
Birch Components	ZZ3	B	2 days	£138.00
Brazil Components	ZZ4	B	2 days	£56.00
Cashew Components	ZZ35	B	2 days	£56.00
Cat Components	ZZ5	B	2 days	£83.00
Celery Components	ZZ6	B	2 days	£56.00
Cow's Milk Components	ZZ7	B	2 days	£164.00
Dog Components	ZZ8	B	2 days	£110.00
Egg Components	ZZ9	B	2 days	£164.00
Fish Components	ZZ10	B	2 days	£83.00
Hazelnut Components	ZZ11	B	2 days	£138.00
House Dust Mite Components	ZZ12	B	2 days	£110.00
Kiwi Components	ZZ32	B	2 days	£53.00
Latex Components	ZZ13	B	2 days	£245.00
Olive Components	ZZ14	B	2 days	£56.00
Peach Components	ZZ15	B	2 days	£110.00
Peanut Components	ZZ16	B	2 days	£164.00
Shrimp Components	ZZ17	B	2 days	£56.00
Soybean Components	ZZ18	B	2 days	£110.00
Timothy Grass Components	ZZ19	B	2 days	£245.00
Venom Components	ZZ33	B	2 days	£132.00
Wall Pellitory Components	ZZ20	B	2 days	£56.00
Walnut Components	ZZ34	B	2 days	£83.00
Wheat Components	ZZ21	B	2 days	£111.00
PR-10 Proteins	7722	В	2 days	£222.00
Lipid Transfer Proteins	ZZ23	<u> </u>	2 days	£194.00
Profilins	ZZ24	B	2 days	£220.00
Polcalcins	ZZ25	B	2 days	£83.00
Seed Storage Proteins	ZZ26	B	2 days	£217.00
Glycan Determinants	ZZ27	<u> </u>	2 days	£56.00
Lipocalins	ZZ28	B	2 days	£83.00
Parvalbumins	ZZ29	B	2 days	£83.00
Serum Albumins	ZZ30	<u> </u>	2 days	£162.00
Tropomyosins	ZZ31		2 days	£83.00
opoJoonio	2201		L days	200.00

^{*} Please quote the ZZ Code when requesting Allergen Component Profiles.

Specialist drug allergy testing

Drug allergy testing requires a specialist testing facility, and this new service is being undertaken by RefLab ApS, Copenhagen, Denmark (ISO 17025 accredited).

The drug induced basophil activation test (BaHRT) is based on allergen induced histamine release from patients own cells. Each drug is tested in titration and in 12 concentrations, with results expressed as a threshold value (mg/mL or μ g/mL or μ g/mL) of the drug, indicating the level of sensitivity. A healthy control is always included as reference for non-specific release. With positive detection at 70%¹, a POSITIVE test result will confirm sensitization. A negative result does not exclude possible drug allergy. A drug allergy challenge test in a specialised allergy centre is indicated for EACH negative drug allergy results to achieve a definitive diagnosis.

Please contact Referrals Department for drug availability – in most cases it will be possible to carry out testing, as drug availability is increasing and specialty drugs can be tested upon request. The drug itself can be sent with the sample to RefLab in Denmark.

Samples must be taken on Mondays, Tuesdays and Wednesday and received by noon in the laboratory for same day referral to Denmark.

For more information please contact the laboratory.

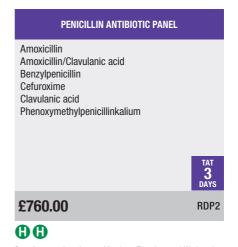
1 Fernando Pineda, Adriana Arisa, Cristobalina Mayorga, Francisca Arribas, Rosaria González-Mendiola, Natalia Blanca-López, Galicia Davila, Nieves Cabañes, Gabriale Canto, José Julio Laguna, Carlos Senent, Per Stahl-Skov, Ricardo Palacios, Miguel Blanca, María José Torres. Role of Histamine Release Test for the Evaluation of Patients with Immediate Hypersensitivity Reactions to Clavulanic Acid. Int Arch Allergy Immunol 2015; 168:233-240.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Penicillin Antibiotic Panel (BaHRT)	RDP2	00	3 days	£760.00
Perioperative Anaphylaxis Panel (BaHRT)	RDP1	00	3 days	£1,039.00
Single drug – please specify drug	RSD	00	3 days	£265.00

Samples must be taken on Mondays, Tuesdays and Wednesday and received by noon same day in the laboratory

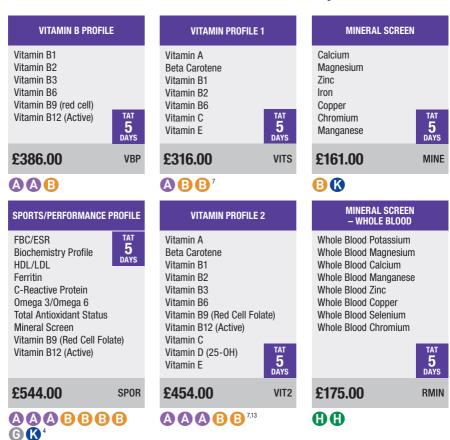
PERIOPERATIVE ANAPHYLAXIS	PANEL
Atracurim Metoclopramide Mivacurim Morphine Ondansetron Pancuronium Propofol Remifentanil Rocuronium Suxamethonium Vecuronium	TAT 3
£1,039.00	RDP1

Samples must be taken on Mondays, Tuesdays and Wednesday and received by noon in the laboratory



Samples must be taken on Mondays, Tuesdays and Wednesday and received by noon in the laboratory

Vitamins, Nutrition and Lifestyle



Patients taking supplements may be advised to stop medication prior to testing.

Vitamins, Nutrition and Lifestyle

TEST	CODE	SAMPLE REQS	TAT	PRICE
Ceruloplasmin	CERU	B	1 day	£46.00
Copper (Serum)	COPP	В	5 days	£50.00
Essential Fatty Acid Profile (Red Cell)	EFAR	A 4	10 days	£157.00
Folate (Red Cell)	RBCF	A	2 days	£42.00
Glutathione (Red Cell)	GLUR	6 5	5 days	£86.00
Glutathione Peroxidase	GLPX	•	5 days	£85.00
Hair Mineral Analysis	HMA	2g (2 tbsp) of hair close to scalp	10 days	£127.00
Kryptopyrroles (Urine)	KRYP	RU ⁶	10 days	£76.00
Lutein	LUTE	B 13	2 weeks	£53.00
Lycopene	LYC0	В	2 weeks	£65.00
Magnesium (Whole blood)	RCMG	A or 🕕	4 days	£78.00
Mineral Screen	MINE	B (8	5 days	£161.00
Mineral Screen (Whole blood)	RMIN	00	5 days	£175.00
Mineral Screen and Industrial Heavy Metal Screen (Trace Metals)	TRAC	A B H K	7-10 days	£254.00
Omega 3/Omega 6 (see page 141)	OMG3	A 4	4 days	£105.00
Selenium (Whole Blood)	SELR	A or 🕕	4 days	£62.00
Selenium (Serum)	SELE	B	4 days	£62.00
Sports/Performance Profile	SPOR		5 days	£544.00
Xylose Tolerance Test	XTT	\mathbf{J}^1	7 days	£96.00
Zinc (Whole Blood)	RBCZ	A or 🕕	5 days	£43.00
Zinc (Serum/Plasma)	ZINC	K	1 day	£41.00
Zinc (Urine)	URZN	CU	5 days	£44.00

This provides valuable diagnostic information, which can be assimilated with other diagnostic markers in the assessment of nutritional status, and compares favourably to semi-quantitative functional assays. For fertility and lifestyle refer to page 52.

TEST	CODE	SAMPLE REQS	TAT	PRICE
1,25 Vitamin D	D3	В	5-8 days	£120.00
Beta Carotene	CAR0	B	5 days	£112.00
Biotin	BIOS	В	1 week	£125.00
Carotenes	CAR0	B 13	5 days	£112.00
Vitamin A (Retinol)	VITA	В	5 days	£129.00
Vitamin B (Functional)	FUNC	A A or H ¹³	5 days	£119.00
Vitamin B Profile	VBP	AAB	5 days	£386.00
Vitamin B1 (Thiamine)	VIT1	A	5 days	£129.00
Vitamin B12 (Active)	B12	В	1 day	£56.00
Vitamin B12 (Active)/ Red Cell Folate	B12F	AB	2 days	£90.00
Vitamin B2 (Riboflavin)	VIB2	A	5 days	£129.00
Vitamin B3 (Nicotinamide)	VIB3	В	5 days	£129.00
Vitamin B5 (Pantothenic Acid)	VB5S	В	5 days	£112.00
Vitamin B6 (Pyridoxine)	VITB	A	5 days	£129.00
Vitamin B8 (Biotin)	BIOS	В	5 days	£125.00

Vitamins, Nutrition and Lifestyle

TEST	CODE	SAMPLE REQS	TAT	PRICE
Vitamin B9 (Folic acid) – Red cell	RBCF	A	2 days	£42.00
Vitamin B9 (Folic acid) – Serum	FOLA	B	1 day	£42.00
Vitamin C (Active)	VITC	(Frozen) ⁷	5 days	£129.00
Vitamin D (1, 25 Dihydroxy)	D3	B	5-8 days	£120.00
Vitamin D (25-OH)	VITD	B	4 hours	£67.00
Vitamin E (Alpha Tocopherol)	VITE	B	5 days	£135.00
Vitamin K (Nutritional)	VKN	B 13	5 days	£73.00
Vitamin Profile 1	VITS	A B B ⁷	5 days	£316.00
Vitamin Profile 2	VIT2	A A B B 7,13	5 days	£454.00

Omega3/6

Essential Red Cell Fatty Acids Omega-3/Omega-6

Omega-3 is the name given to a family of polyunsaturated fatty acids, which the body needs but cannot manufacture itself. Omega-3 fats are used as the building blocks for fat derived hormones such as prostaglandins and leukotrienes. The hormones with an Omega-3 base tend to reduce inflammation, while those that have an Omega-6 base increase inflammation. In the cell membrane the competition between these two essential fats has a direct bearing on the type of local hormone produced and the level of inflammation in the cell.

The Omega-6 to Omega-3 ratio in the cell membranes is key to the development of inflammatory disorders such as rheumatoid arthritis and heart disease. Diets low in oily fish and high in grains will promote inflammation and affect good health. The ratio of Omega-6 to Omega-3 in the West is around 15 to 1, fifteen times more Omega-6 on the cell membrane promoting inflammation. Having twice as much Omega-6 is considered by most experts to be the optimal amount but a ratio of 2:1 is not easy to produce by diet alone. Many people are aware of the health benefits of Omega-3 but the supplementation to achieve optimal health is erratic. Being able to test for Essential Red Cell Fatty Acids (Omega-6/Omega-3 ratio) identifies a person's current status and is sufficiently specific to allow an accurate supplementation recommendation to be made.

Results show the Omega Ratio with a clear recommendation for the required level of Omega Supplementation (if any) to achieve optimal levels.

Results show the ratio of Omega 3 to Omega 6, against an optimal ratio and provide a supplementation recommendation to achieve this optimal ratio.

TEST	CODE	SAMPLE REQS	TAT	PRICE
Omega 3/Omega 6	OMG3	A 4	4 days	£105.00

TDL TINIES™ (tinies@tdlpathology.com)

This list of tests covers some of the range that can be offered to patients for self-collection, using TDL TINIES™ and Royal Mail postal packs. Orders for TDL TINIES™ (packs with instructions) can be made up by TDL, by arrangement, and sent individually to patients, or supplied directly to doctors or healthcare companies. This is not a patient self-referral service and it is not point of care testing. All testing is undertaken in the laboratory and results are always returned directly to the healthcare company or doctor, **not to the patient**.

TDL TINYTM samples can be combined with other self-collected samples types (urine, stool, swabs, HPV).

In the case of positive Sexual Health, results will be reported with the recommendation for a venous sample to undertake confirmatory sample.

The sample volume from one TINY sample, when filled to the upper fill line, is **600 microlitres**. These, on receipt in the laboratory, are centrifuged and provide a volume of 300 microlitres of serum/ plasma (depending on the tube type used). Different tests require varying amounts of sample, and this, together with analyser dead volumes, means that although certain tests can be carried out from TINY tubes, many tests simply cannot be achieved from these smaller sample volumes.

TDL TINY™ microtainers are manufactured by BD Diagnostics. They are designed for samples collection from skin puncture. BD Microtainers come with a variety of additives for various tests, have visible fill lines, and are colour coded as for standard BD Vacutainer tubes. Tubes and Lancets are CE marked. TDL TINY™ packs are made up by TDL and contain everything needed for a patient to self-collect their blood sample.

Recommendation: most people are not experienced at self-collection of their own blood. Whilst it is certainly possible to do a number of tests from one TINY and it is possible to collect for two or three microtainers – the most successful outcomes are collected by patients who read the instructions given in each pack, and who collect enough sample for one microtainer. Instructions for sample collection are enclosed in each pack. A completed **request form** must be enclosed with the returned sample. Results will always be sent to the requesting doctor /healthcare organisation.

There is a TDL TINY™ video to assist patients with sample collection.

Visit http://www.tdlpathologv.com/test-information/test-service-updates/tdl-tinies

This can be personalised with logo and details.

For information and packs, please contact Annette Wilkinson 020 7307 7343 or email tinies@tdlpathologv.com.

Tests that can be self-collected using TDL TINIES™

Uric Acid

Vitamin B12 (Active)

Vitamin D (25-0H)

HAEM	ATOLOGY	
TEST	CODE	SAMPLE REQS
Full Blood Count	FBC	A
HbA1c	GHB	A
BIOCH	EMISTRY	
TEST	CODE	SAMPLE REQS
Amylase	AMY	В
Calcium	CA	В
Calcium + Vitamin D	CALD	В
Carbohydrate Deficient Transferrin	CDT	В
C Reactive Protein	CRP	В
C Reactive Protein (High Sensitivity)	HCRP	В
Ferritin	FERR	В
HbA1c	GHB	A
Iron Status Profile (FE/TIBC/FERR)	ISP	В
Liver Function Tests	LFT	В
Lipid Profile	LIPP	В
Lp-PLA2 (PLAC) Test	PLA2	В

UA

B12

VITD

BB

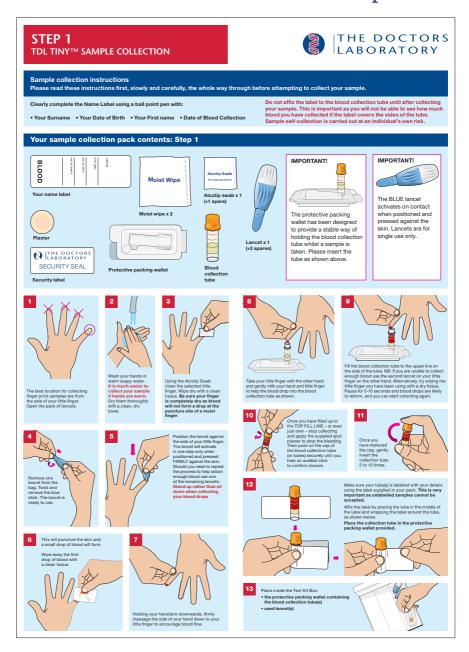
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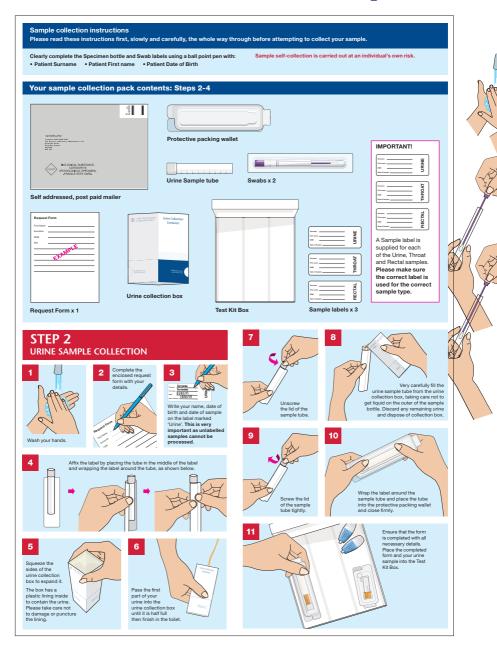
ENDOCRINOLOGY			
TEST	CODE	SAMPLE REQS	
AFP	AFP	В	
Antimullerian Hormone	АМН	B	
Beta HCG (Quantitative)	QHCG	B	
Cortisol	CORT	B	
DHEA Sulphate	DHEA	В	
Female Hormone (LH/FSH/PROL/OEST)	FIP	B	
FSH	FSH	В	
HRT Profile 1 (FSH/0EST/PROG)	HRT	В	
Oestradiol	0EST	B	
Progesterone	PROG	B	
Prolactin	PROL	B	
SHBG	SHBG	В	
Testosterone	TEST	B	
Thyroid Profile 1 (Free T4/TSH)	TF	В	
Thyroid Profile 3 (Free T3/Free T4/TSH)	TF3	В	

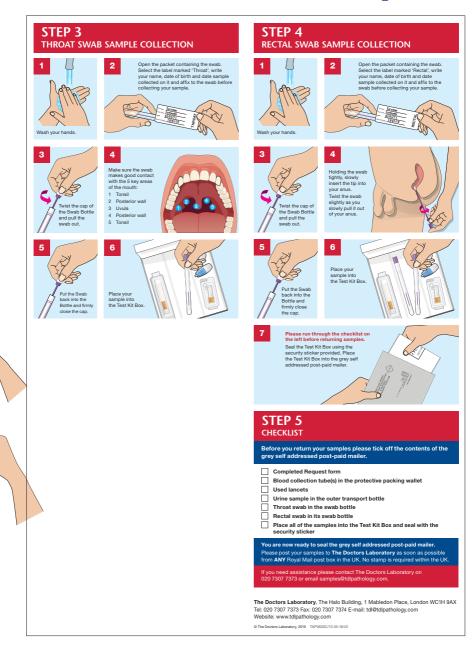
IM	MUNOLOGY	
TEST	CODE	SAMPLE REQS
Borrelia Antibodies (IgG/IgM)	BORR	В
Borrelia Antibodies (IgM)	BORM	B
Endomysial Antibodies IgA	AEAB	В
Gliadin Antibodies (IgG)	AGAB	В
H. pylori Antibodies (IgG)	НВРА	В
Tissue Transglutaminase IgA	TAA	В
VIROLOGY	//SEXUAL HEALTH	
TEST	CODE	SAMPLE REQS
Hepatitis B Surface Antigen	THBA	В
Hepatitis B Immunity (IgG)	ТНВІ	B
Hepatitis C Antibodies	THCV	B
HIV1&2 Abs/p24 Ag	THIV	В
Syphilis IgG/IgM	TSYP	В

TUMOUR MARKERS			
TEST	CODE	SAMPLE REQS	
AFP	AFP	В	
Beta HCG(Oncology)	HCGQ	В	
CA 15-3	C153	В	
CA 19-9	C199	В	
CA 125	C125	В	
CEA	CEA	В	
HE4 + ROMA	HE4	В	
Prostate Specific Antigen	PSPA	В	

LIFESTYLE			
TEST	CODE	SAMPLE REQS	
Omega 3/Omega 6	OMG3	A	
Vitamin B9 (Folic Acid) Red Cell	RBCF	A	
Vitamin B9 (Folic Acid) Serum	FOLA	B	
Vitamin B12 (Active)	B12	B	
Vitamin D (25-OH)	VITD	В	







Screening for Drugs of Abuse/Alcohol

TEST	CODE	SAMPLE REQS	TAT	PRICE
Alcohol Profile	AP	ABBG	5-7 days	£162.00
Alcohol Profile 2	ALCP	A A B B G RU	5-7 days	£220.00
Amphetamines – Blood	AMPB	BB	5 days	£73.00
Cannabinoids (Urine) Screen	CANN	RU	1 day	£44.00
Cocaine (Urine) Screen	UCOC	RU	1 day	£25.00
Drugs of Abuse From Blood	DOAP	В	5 days	£131.00
Drugs of Abuse Profile - Random Urine Sample/No Chain of Custody Plus Alcohol	DOA3	RU	2 days (5 days with LCMS confirmation)	£88.00
Drugs of Abuse Profile – Random Urine Sample/ No Chain of Custody	DOA	RU	2 days (5 days with LCMS confirmation)	£66.00
Drugs of Abuse Profile – With Chain of Custody	DOAL	RU/CoC Collection Containers 1,2	2 days (5 days with LCMS confirmation)	£105.00
Drugs of Abuse Profile – Without Chain of Custody	DOAN	RU ²	2 days (5 days with LCMS confirmation)	£85.00
Ketamine Screen	KETA	RU	7-10 days	£125.00
LSD	LSD	RU	5 days	£97.00
Opiate Screen (Urine)	UOPI	RU	2 days	£48.00
PEth (Phosphatidylethanol)	PETH	A 38	5-7 days	£91.00
Urine EtG (Ethyl glucuronide)	ETG	RU	1 week	£91.00

Chain of custody refers to the system of controls governing the entire urine collection, processing and storage of sample to ensure that a particular urine specimen originated from a particular individual and that the reported results relate, beyond doubt, to that specimen. Chain of custody requires attention to detail so that it is possible to prove that there has been no opportunity for the sample to be accidentally or maliciously adulterated. Sample collection should be undertaken by collectors who are well versed in the protocols of chain of custody.

Samples submitted for analysis will undergo initial screening. Urinary creatinine is routinely measured during testing to verify the validity of the sample submitted. Creatinine levels below normal occur when the urine has been diluted, either directly or by drinking large amounts of water before providing the urine sample. Chain of custody containers, forms, seals and barcodes are provided by TDL on request. All Chain of Custody, and non-chain, samples with positive findings will proceed to identification/confirmation by Gas Chromotography/Mass Spectrometry.

Screening for Drugs of Abuse/Alcohol

DRUGS OF ABUSE SCREENING





	ALCOHOL PROFIL	E
LFT CDT PEth	Alcohol Level MCV	TAT 5-7 DAYS
£162	.00	АР
AB	BG	

DRUGS OF ABUSE P Urine Sample/No (
Amphetamines Barbiturates Benzodiazepine Cannabinoids Cocaine Codeine — opiate Dihydrocodeine —	Ephedrine MDMA Methadone Metanepharines Morphine – opiate			
opiate	TAT 2 DAYS	5 WITH LCMS CONFIRMATION DAYS		
£66.00 DOA				
288.00		plus Alcohol DOA3		
RU				

ISTODY
TAT 5
DOAP



Occupational health

OCCUPATIONAL	L HEALTH – TRA	CE METALS IN BLO)D	
TEST	CODE	SAMPLE REQS	TAT	PRICE
Aluminium	ALUM	()	7 days	£64.00
Arsenic	ARS	A or H	5 days	£67.00
Cadmium	CADM	(A) or (1)	5 days	£67.00
Chromium	CHRO	A	5 days	£59.00
Cobalt (Serum)	COBB	В	5 days	£67.00
Copper (Serum)	COPP	В	5 days	£50.00
Lead	LEAD	A	5 days	£50.00
Lead Profile (Hb, ZPP, Lead)	LEAZ	A 13	3-5 days	£64.00
Magnesium (Serum)	MG	В	4 hours	£34.00
Manganese (Serum)	MANG	В	5 days	£64.00
Mercury	MERC	(A) or (1)	5 days	£50.00
Nickel	NICK	В	5 days	£63.00
Silver	SILV	B	5 days	£87.00
Trace Metal (Blood) Profile	TRAC	ABO (3	7-10 days	£254.00
Zinc (Serum/Plasma)	ZINC	•	1 day	£41.00

		TRACE	METAL (BLOOK) PROFILE		
Aluminium Manganese	Iron Calcium	Zinc Magnesium	Copper Cadmium	Mercury Lead	Chromium	7-10 DAYS
£254.00						TRAC



Occupational health

	OCCUPATIONAL HEALTH	– TRACE METALS IN	URINE	
TEST	CODE	SAMPLE REQS	TAT	PRICE
Aluminium (Urine)	ALUU	RU	1-2 weeks	£86.00
Arsenic	ARSE	RU ³⁰	5 days	£67.00
Cadmium	URCD	RU ³⁰	5 days	£67.00
Chromium	URCR	RU ³⁰	10 days	£59.00
Cobalt	COBA	RU ³⁰	5 days	£67.00
Copper	URCU	CU	5 days	£50.00
Lead	URPB	RU	5 days	£50.00
Magnesium	URMG	PU	1 day	£38.00
Mercury	URHG	RU ¹	5 days	£67.00
Nickel	NICU	RU	5 days	£67.00
Silver	USIL	RU	5 days	£87.00
Zinc	URZN	CU	5 days	£44.00

OCCUPATIONAL	L HEALTH – 1	TESTS FOR SPECIFIC EXPO	SURE	
TEST	CODE	SAMPLE REQS	TAT	PRICE
2-Butanone GC	BUTA	RU	7 days	£125.00
2-Furoic Acid	2FA	RU	10 days	£211.00
Acetone - Blood	ACTB	(A) or (H)	2 weeks	£94.00
Acetone – Urine	ACTU	RU	5 days	£94.00
Alcohol Profile	AP	ABBG	5-7 days	£162.00
Alcohol Profile 2	ALCP	A B B G RU	5-7 days	£220.00
Benzene	BENZ	J ^{1,6}	3 days	£109.00
Beta 2 Microglobulin (Serum)	B2MG	B	2 days	£78.00
Beta 2 Microglobulin (Urine)	UB2M	RU	3 days	£88.00
Bromide	BROM	B	3 days	£119.00
Cholinesterase (Blood)	CHRC	•	5 days	£84.00
Cholinesterase (Serum/Pseudo)	CHPS	B	4 hours	£45.00
Cotinine (Saliva)	SCOT	Saliva Kit ¹	2 days	£49.00
Doxepin Level (Sinequan)	DOXE	A	10 days	£98.00
Isocyanates – Urine	ISOC	J ⁶	3 weeks	£148.00
MBOCA in Urine	MBOC	RU	10 days	£97.00
Molybdenum (Serum)	MOLY	B	5 days	£63.00
Pethidine – Urine	UPET	RU	4 weeks	£232.00
Thallium (Blood)	THAL	A / (1 week	£63.00
Thallium (Urine)	URTH	RU	1 week	£63.00
Toluene (Blood)	TOL	J	10 days	£120.00
Toluene (Urine)	UT0L	RU	10 days	£155.00
Trichloracetic Acid (Urine)	UTCA	RU	5 days	£117.00
Xanthine - Blood	XANB	A	2 weeks	£88.00
Xylene – Urine	UXYL	RU ³⁰	2 weeks	£87.00
Zinc Protoporphyrin	ZNPR	A 13	5 days	£69.00

The Cytology Laboratory provides a rapid service for liquid based cervical samples. Urine cytology is performed in house while other non-gynaecological cytology samples are referred to a UKAS accredited laboratory for reporting.

Human papilloma virus (HPV), Chlamydia and Gonorrhoea testing is carried out routinely from ThinPrep vials and can be requested at the time the cervical sample is taken.

Laboratory hours

The laboratory department is open between 9.00am and 6.00pm. Out of hours results available on 020 7307 7373.

Urgent samples

It is helpful if requests for urgent samples can be discussed with the Cytology Manager. Please telephone 020 7307 7323.

Use of service/Information required

Request forms must include **3 identifiers** (this can be patient's full name = 2, date of birth, hospital number or reference number) and need to accompany each sample.

Appropriate clinical information providing previous treatment/histological diagnosis is essential to ensure correct management recommendations can be given in the patient report. Tick boxes are provided to assist you.

The specimen container must be clearly labelled with patient details. Forms and samples which are mismatched will result in the sample being returned to the sender for correction and will delay the report turn around time.

Clinical advice

The Consultant Cytopathologists and the Advanced Practitioner work together to provide clinical and technical advice, including recommendations for follow-up, HPV testing and management of complex cases. To contact the department directly, please telephone 020 7307 7323.



RECORD...

- ...the patient's 3 identifiers to include date of birth on the vial.
- ...the patient information and medical history on the cytology requisition form.



OBTAIN...

...an adequate sample from the cervix using a Cervex Brush (broom-like device). Insert the central bristles of the brush into the endocervical canal deep enough to allow the shorter bristles to fully contact the ectocervix. Push gently and rotate the brush in a clockwise direction five times.



RINSF

...the Cervex Brush immediately into the PreservCyt Solution vial by pushing it into the bottom of the vial 10 times, forcing the bristles apart. As a final step, swirl the brush vigorously to further release material. Visually inspect the Cervex Brush to ensure that no material remains attached. Discard the brush.

Do not leave the head of the Cervex Brush in the vial. Check the vial is in date before use.



TIGHTEN...

...the cap so that the black torque line on the cap passes the black torque line on the vial. Do not over-tighten.



PLACE...

...the vial and request form in a specimen bag for transportation to TDL.

ThinPrep® PAP Test Cervex Brush Protocol

PREPARE ALL EQUIPMENT BEFORE STARTING THE PROCEDURE

- Note expiry date on sample collection vial. Do not use expired vials.
- Ensure the entire plastic seal is removed from the lid of the vial and discarded.
- Complete patient details on both the request form and the vial.
 Specimens may be returned or discarded if details are missing from the vial.
- Remove the lid from the vial before taking the sample.
- Use of lubricant is NOT recommended.

DO

- If excessive mucus is present, this should be gently removed before sampling.
- Use either the Cervex Brush (broom-like device) on its own or a Plastic spatula and endocervical brush combination.
- The Cervex Brush should be rotated 5 times in a clockwise direction.
 The Plastic spatula should be rotated through 360 degrees and the endocervical brush rotated through one quarter to one half turn.
- Immediately rinse the collected material into the vial.
- Replace the lid and tighten so that the black torque line on the cap passes the black torque line on the vial to avoid leakage.
- Keep the unlabelled portion of the sample vial free of labels so that the contents can be seen.
- If barcoded labels are used these must be applied horizontally around the vial.
- Samples should be sent to the laboratory without delay.

DON'T

- DO NOT leave the head of the Cervex Brush in the vial.
- DO NOT routinely clean the cervix or take a cervical swab before taking a cervical sample.
- An endocervical brush should never be used in isolation.
- DO NOT under any circumstances use a wooden spatula.
- DO NOT leave the collection device sitting in the vial whilst dealing with the patient.
- DO NOT over-tighten the lid on the vial.
- DO NOT place multiple labels on the outside of the vial.
- DO NOT apply barcoded labels vertically on the vial.
- DO NOT use expired vials.
- DO NOT delay the sending of vials to the laboratory. The sample needs to be processed within 3 weeks of collection.
- DO NOT use excessive lubricant please AVOID if possible.

Gynaecological Samples

The Cytology department processes cervical samples directly referred from all sectors of practice – Health Screening, Occupational Health, GP's, Consultants, Colposcopy Units, Clinics, Hospitals and other Laboratories.

Liquid Based Cytology (LBC) is processed using the Hologic ThinPrep system.

The Doctors Laboratory uses the Hologic Imaging system as an enhanced Quality Control.

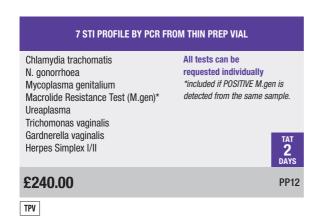
Information for Sample Takers is available by contacting the department. Important: the head of the cervical broom must NOT be left in the vial. The use of lubricant interferes with LBC sampling and may result in an inadequate sample. Use of lubricant is NOT recommended as it can affect the processing quality of the sample. Supplies of Thin prep vials are available from TDL.

STI Screening from Hologic Thin Prep Vial (HPV - see page 158)

Tests are priced individually. Please request tests individually. Thin Prep Vials are kept for 21 days after receipt of sample. Requests for additional tests from the vial already received in the laboratory can be made by contacting the Cytology Department.

Infection by PCR (singles)

TEST	CODE	SAMPLE REQS	TAT	PRICE
Chlamydia trachomatis	TPCR	TPV	2 days	£75.00
N. gonorrhoea	TGON	TPV	2 days	£75.00
Chlamydia/Gonorrhoea	TCG	TPV	5 days	£75.00
Mycoplasma genitalium	MGEN	TPV	2 days	£75.00
Ureaplasma urealyticum	UGEN	TPV	2 days	£75.00
Trichomonas vaginalis	TVPC	TPV	2 days	£75.00
Gardnerella vaginalis	GVPC	TPV	2 days	£75.00
Herpes Simplex I/II	HERD	TPV	4 days	£75.00



Human papillomavirus (HPV) is a common virus transmitted through sexual contact. High Risk subtypes of HPV (HR-HPV) are linked to the development of abnormal cells and can cause cervical cancer. HPV is a necessary cause of invasive cervical cancer. Evidence shows HPV testing is a more effective way to identify women at risk of cervical cancer than by testing microscopically for abnormal cells from a PAP smear.

HR-HPV testing has been used in the UK since 2011 to identify women with low grade cytology abnormalities and as a follow up test of cure in women who have received treatment. In 2017 the UK NHSCSP recommended that **testing for HPV should replace cytology as the first (primary test) in cervical screening**. Primary HR-HPV testing has higher sensitivity for high grade CIN than primary cytology. HR-HPV testing also has a lower false negative rate than cytology. Primary HR-HPV testing will be fully implemented in the UK during 2019. Sample taking remains unchanged: HR-HPV testing is carried out from Thin Prep samples. Cytology will be undertaken as a triage if HPV is DETECTED.

WHAT DOES THIS CHANGE MEAN?

It means that HPV testing is the **FIRST LINE TEST**. It will be carried out as a single test, with a single result reported as DETECTED/NOT DETECTED.

- If HR-HPV is NEGATIVE (NOT DETECTED) this means no further testing is needed for your patient: she returns to Routine Recall
- If HR-HPV is POSITIVE (DETECTED) this means that CYTOLOGY will be processed from the same Thin Prep Vial. A further specimen is not required.
- If the CYTOLOGY result from this sample is HR-HPV NOT DETECTED the patient Recall
 will be determined by the screening history and will either be a repeat HR-HPV test in 12 months'
 time or, if HR-HPV remains persistent, a referral to colposcopy.
- If the CYTOLOGY result from this sample is ABNORMAL the recommendation is to refer this patient for COLPOSCOPY.

https://www.gov.uk/government/publications/cervical-screening-primary-hpv-screening-implementation/cervical-screening-implementation-guide-for-primary-hpv-screening-guide-for-primary-hpv-screening-guide-for-primary-guide-for-primary-guide-for-primary-guide-fo

Since 1st January 2019 all TDL requests for HPV have been processed as follows:

- If HPV is requested as a single test, and the result is NEGATIVE/NOT DETECTED, cervical cytology (PAPT) will only be processed if specifically requested.
 The PAPT would be charged as an additional test.
- If HPV result is DETECTED, cervical cytology (PAPT) will be processed, even if not requested. The PAPT cervical sample will NOT be charged additionally.
- If cervical cytology (PAPT) is requested, HPV will always be processed with the PAPT.
 The PAPT will be charged.

UNDERSTANDING THE SIGNIFICANCE OF HPV TESTING

The benefit of a negative HPV result is its negative predictive value – meaning that a negative HPV result indicates that a patient is at very low risk of developing cervical disease. The negative predictive value of both DNA and mRNA testing is the same. DNA tests detect presence of virus only. A mRNA test detects the presence of viral oncogenic expression.

Requests for Cervical Cytology (PAPT) only will no longer be processed without HPV. HPV testing will be charged.

Requests for PAPT

TEST	CODE	SAMPLE REQS	TAT	PRICE
Cervical Cytology	PAPT will include HPV	TPV	2-3 days	£71.00 + HPV £59.00

If PAPT is requested as a single test, HR-HPV will be undertaken additionally, and a combined report will be issued. **PAPT and HPV will be charged**.

Requests for PAPT with selected HPV (HPV or HP20 or HPVT)

TEST	CODE	SAMPLE REQS	TAT	PRICE
PAPT and HPV	PAPT + HPV	TPV	2-3 days	£71.00 + HPV as selected

If PAPT and HPV are requested together, results will be given as a combined report, **PAPT and selected HPV test will be charged**.

Requests for HPV as the PRIMARY TEST will reflex to PAPT if HPV is DETECTED/POSITIVE. PAPT will NOT be charged.

TEST	CODE	SAMPLE REQS	TAT	PRICE
HPV mRNA (All High Risk Subtypes)	HPV	TPV	2-3 days	£59.00

If HPV is DETECTED/POSITIVE, cervical cytology (PAPT) will be processed **without charge**. The PAPT will be processed from the same vial.

Requests for HP20 as a single test

TEST	CODE	SAMPLE REQS	TAT	PRICE
HPV Typed DNA	HP20	TPV/PCR Swab	2-3 days	£93.00

HPV low and high risk DNA subtypes will be reported individually (5 low and 14 high risk). If HPV is DETECTED/POSITIVE, cervical cytology (PAPT) will be processed **without charge**. The PAPT will be processed from the same vial.

Requests for HPVT as a single test

TEST	CODE	SAMPLE REQS	TAT	PRICE
HPV Typed DNA	HPVT	TPV	3 days	£118.00

If one or more of DNA types 16, 18, 31, 33, 45 are DETECTED/POSITIVE, reflex testing for expression of E6/E7 oncoproteins will be undertaken and cervical cytology (PAPT) will be processed **without charge**. The PAPT will be processed from the same vial.

HPV/PAPT Combined Report

Where HPV result is reported with Cervical Cytology, a recommendation for patient management will be given, based on the combined findings.

Self-collection HPV samples

TDL Self-Collection HPV Test 2020

Human Papillomavirus (HPV) is the primary cause of nearly all cervical cancer. In most cases, the HPV virus is harmless and causes no symptoms. Most women who acquire HPV are able to clear the infection through their own immune systems. Persistent presence of high-risk types of HPV can cause cervical lesions which over time may develop into cancer if untreated. Testing for HPV determines the presence, or absence, of HPV and will determine whether the HPV type present is high risk for CIN and cervical cancer.

The **Self Collection HPV Test** provides women with the option to self-collect a vaginal specimen that is then sent to the laboratory for testing. There is well documented high level of concordance between the HPV DNA results from self-collected and clinician-collected specimens.

The **Self-Collection HPV Test** is validated, using a CE marked sample collection device for vaginal cell collection. This sample is then sent to the laboratory for processing for 14 high risk HPV DNA subtypes. A negative result means that these high-risk subtypes HPV were not detected and the patient is at extremely low risk of developing high-grade cervical disease/CIN2+ before their next routine visit.

A positive HPV result might indicate an increased risk of developing CIN/cervical cancer, and the report from the laboratory will provide a clear recommendation for follow-up/colposcopy.

The value of HPV DNA testing in cervical cancer screening and disease detection has been proven over and over again. Self-collection of specimens for HPV testing is not intended to replace existing patient management pathways but allows for:

- Those who wish to test following a change of sexual partner
- Option for identifying individual high risk DNA subtypes
- Personal preference to self-collect vaginal samples
- An acceptable option for women who avoid having regular cervical smears
- Self-collection for HPV increases acceptability and coverage rate of cervical cancer prevention

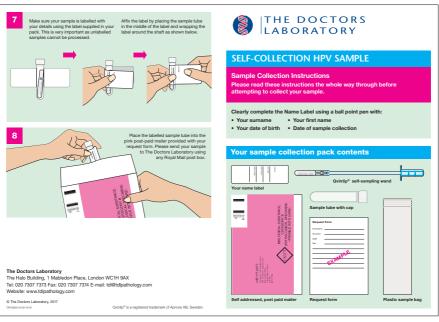
Results will always be sent to the requesting clinician, clinic or healthcare organisation.

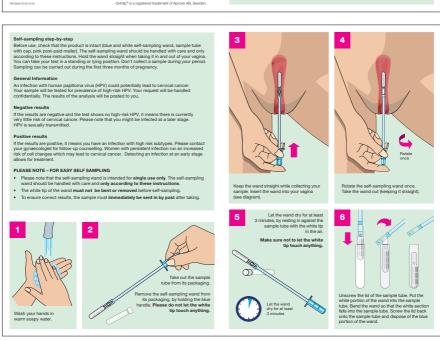
HPVY Self-Collected HPV DNA with reporting of the other high risk subtypes (16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68).

HPVZ Self-Collected HPV DNA with **individual** reporting of all subtypes 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68.

For more information, or to order Self-Collection HPV Test Packs, please contact Annette Wilkinson on 020 7307 7373 or annette.wilkinson@tdlpathology.com

Self-collection HPV samples





Non-Gynae Cytology

Non-Gynaecological Cytology

Urines

To prevent cell degeneration it is advisable to collect urine samples in a sample pot containing preservative (available from TDL Supplies). Use of preservative will ensure the cellular material is preserved up to 48 hours.

Ideally 10 mls (excluding preservative) from a freshly fully voided urine (when the bladder is emptied) mid-morning sample should be submitted for cytological assessment. If microbiology or chemistry investigations are also required, **please submit separate urine samples** and mark the vials accordingly. A mid-stream urine sample is NOT recommended for cytological assessment is it could lead to a low cellular yield. If a delay of greater than 24 hours in reaching the laboratory is anticipated samples should be refrigerated at 4°C.

Sputum

Sputum should be collected on at least three occasions if underlying lung carcinoma is suspected. A single sputum is sufficient for microbiological assessment. Sputum should be sent to the laboratory immediately following production, or stored in a universal container containing cytolyt cell fixative if there is a likely delay. Please note that this is only acceptable if sputum is only for Cytology. Microbiology cannot be performed on fixed material. Early morning sputum is ideal, but contamination with food, toothpaste and tobacco should be avoided.

Fluids

All available material should be submitted in a sterile container without fixative as quickly as possible. If any delay is anticipated, the material should be submitted in cytolyt fixative.

Cerebrospinal fluid (CSF)

Ideally CSF should be submitted fresh or as an air dried cytospin slide, unstained and in a plastic transport slide box. A minimum of 3mls should be submitted either in fresh form or spun on multiple slides for cytopathologists' review and opinion. Please contact TDL Cytology for advice if required on 020 7307 7323 /7373.

URINE/SPUTUM/FLUID					
TEST	CODE	SAMPLE REQS	TAT	PRICE	
Fluid Cytology	CATF	Fluid 4	3 days	£128.00	
Urine Cytology (Urine cytology containers available from TDL Supplies)	URCY	Urine (30mls) ²¹	2 days	£120.00	

CATEGORY	CODE	TISSUE SAMPLE	PRICE
Breast	HIS1	Breast Capsule	£165.00
Breast	HIS4	Breast Reduction (Bilateral)	£371.00
Breast	HIS3	Breast Reduction (Unilateral)	£288.00
Breast	HIS2	Breast Tissue	£247.00
Breast	HIS2	Cavity Shavings	£247.00
Breast	HIS1	Core Biopsy (1 Specimen)	£165.00
Breast	HIS2	Core Biopsy (2 Specimens)	£247.00
Breast	HIS3	Core Biopsy (3 Specimens)	£288.00
Breast	HIS4	Core Biopsy (4 Specimens)	£371.00
Breast	HIS3	Lumpectomy	£288.00
Breast	HIS5	Mastecomy (simple)/Wide Local Excision (WLE)	£484.00
Breast	HIS5+HIS4	Mastectomy + axillary clearance	£855.00
Breast	HIS4	Microdochectomy	£371.00
Breast	HIS2	Nipple	£247.00
Breast	HIS5	Sentinal Nodes	£484.00
Cardiac	HIS3	Aorta	£288.00
Cardiac	HIS2	Cardiac Biopsy	£247.00
Cardiac	HIS3	Cardiac Tumour Excision	£288.00
Cardiac	HIS2	Heart Valves	£247.00
Cardiac	HIS2	Mediastinal Tissue	£247.00
Cardiac	HIS2	Pericardium	£247.00
Cardiac	HIS2	Temporal Artery Biopsy	£247.00
Endocrine	HIS5	Adrenal	£484.00
Endocrine	HIS4	Parathyroid	£371.00
Endocrine	HIS4	Thyroid (Lobe)	£371.00
Endocrine	HIS5	Thyroid (Total)	£484.00
ENT – Biopsy	HIS2	Bronchial Biopsy	£247.00
ENT – Biopsy	HIS1	Cholesteatoma	£165.00
ENT – Biopsy	HIS1	Dental Cyst	£165.00
ENT – Biopsy	HIS1	Ear Canal Biopsy	£165.00
ENT – Biopsy	HIS1	Ear Polyp	£165.00
ENT – Biopsy	HIS1	Epiglottis	£165.00
ENT – Biopsy	HIS1	Gingivial Tissue	£165.00
ENT – Biopsy	HIS1	Laryngeal Biopsy	£165.00
ENT – Biopsy	HIS2	Laryngeal Nodule (Bilateral)	£247.00
ENT – Biopsy	HIS1	Laryngeal Nodule (Unilateral)	£165.00
ENT – Biopsy	HIS2	Mandible Biopsy	£247.00
ENT – Biopsy	HIS2	Maxillary Mucosa	£247.00
ENT – Biopsy	HIS2	Mucocele	£247.00
ENT – Biopsy	HIS1	Nasal Biopsy	£165.00
ENT – Biopsy	HIS1	Nasal Polyps	£165.00
ENT – Biopsy	HIS1	Oral Biopsy	£165.00
ENT – Biopsy	HIS1	Palatal Biopsy	£165.00

CATEGORY	CODE	TISSUE SAMPLE	PRICE
ENT – Biopsy	HIS1	Pharyngeal Biopsy	£165.00
ENT – Biopsy	HIS2	Pleural Biopsy	£247.00
ENT – Biopsy	HIS1	Thyroid Biopsy	£165.00
ENT – Biopsy	HIS1	Tongue Biopsy	£165.00
ENT – Biopsy	HIS1	Tonsil (1 Specimen)	£165.00
ENT – Biopsy	HIS2	Tonsil Biopsy	£247.00
ENT – Biopsy	HIS2	Tonsils (2 Specimens)	£247.00
ENT – Biopsy	HIS2	Uvelectomy	£247.00
ENT – Biopsy	HIS1	Vocal chords	£165.00
ENT – Resections	HIS5+HIS2	Glossectomy	£721.00
ENT – Resections	HIS5	Laryngectomy	£484.00
ENT – Resections	HIS5+HIS2	Maxillectomy	£721.00
ENT – Resections	HIS5+HIS2	Neck Dissection	£721.00
ENT – Resections	HIS5+HIS5	Neck Dissection (Bilateral)	£958.00
ENT – Resections	HIS4	Parotidectomy	£371.00
ENT – Resections	HIS4	Partial Thyroidectomy	£371.00
ENT – Resections	HIS5+HIS5	Pharyngectomy	£958.00
ENT – Resections	HIS5+HIS2	Rhinectomy	£721.00
ENT – Resections	HIS3	Submandibular Gland – Excision	£288.00
ENT – Resections	HIS2	Thyroglossal Cyst	£247.00
GI Endoscopic – Biopsy	HIS1	Bile duct biopsy	£165.00
GI Endoscopic – Biopsy	HIS1	Colonic Polyp	£165.00
GI Endoscopic – Biopsy	HIS1	Endoscopic Biopsy (1 specimen)	£165.00
GI Endoscopic – Biopsy	2H1	Endoscopic Biopsy (2 specimens)	£247.00
GI Endoscopic – Biopsy	3H1	Endoscopic Biopsy (3 specimens)	£288.00
GI Endoscopic – Biopsy	4H1	Endoscopic Biopsy (4 specimens)	£371.00
GI Endoscopic – Biopsy	5H1	Endoscopic Biopsy (5 specimens)	£371.00
GI Endoscopic – Biopsy	6H1	Endoscopic Biopsy (6 specimens)	£371.00
GI Endoscopic – Biopsy	7H1	Endoscopic Biopsy (7 specimens)	£371.00
GI Endoscopic – Biopsy	8H1	Endoscopic Biopsy (8 specimens)	£371.00
GI Endoscopic – Biopsy	9H1	Endoscopic Biopsy (9 specimens)	£484.00
GI Endoscopic – Biopsy	10H1	Endoscopic Biopsy (10-15 specimens)	£484.00
GI Endoscopic – Biopsy	HIS5	Liver Biopsy – Medical	£484.00
GI Endoscopic – Biopsy	HIS3	Liver Biopsy – Tumour	£288.00
GI Endoscopic – Biopsy	HIS3	Omental Biopsy	£288.00
GI Endoscopic – Biopsy	HIS1	Pancreatic Biopsy	£165.00
GI Endoscopic – Biopsy	HIS1	Perianal Biopsy	£165.00
GI-Resection – Small	HIS215	Anal Fistula	£247.00
GI-Resection – Small	HIS2	Appendix	£247.00
GI-Resection – Small	HIS3	Endo Mucosal Resection (EMR/ESD)	£288.00
GI-Resection – Small	HIS2	Gallbladder	£247.00
GI-Resection – Small	HIS2	Haemorrhoidectomy	£247.00
GI-Resection – Small	HIS2	Hernia Sac	£247.00
GI-Resection – Small	HIS3	Meckel's Diverticulum	£288.00

CATEGORY	CODE	TISSUE SAMPLE	PRICE
GI-Resection – Small	HIS2	Mesentery	£247.00
GI-Resection – Small	HIS2	Perianal Biopsy/Warts	£247.00
GI-Resection - Small	HIS2	Pilonidal Sinus	£247.00
GI-Resection - Small	HIS2	Polypectomy	£247.00
GI-Resection – Small	HIS2	Umbilical Lesion	£247.00
GI Resection – Large	HIS5	Biliary Resection	£484.00
GI Resection – Large	HIS5+HIS2	Colon	£721.00
GI Resection – Large	HIS5	Distal Pancreatectomy	£484.00
GI Resection – Large	HIS5+HIS2	Gastrectomy	£721.00
GI Resection – Large	HIS5	Gastric Wedge Resection	£484.00
GI Resection – Large	HIS5	lleoanal Pouch Resection	£484.00
GI Resection – Large	HIS4	lleostomy	£371.00
GI Resection – Large	HIS3	lleum	£288.00
GI Resection – Large	HIS5+HIS2	Large Bowel Resection – Benign/Malignant	£721.00
GI Resection – Large	HIS4	Liver Wedge Resection	£371.00
GI Resection – Large	HIS5+HIS2	Oesophagectomy	£721.00
GI Resection – Large	HIS5	Partial Hepatectomy	£484.00
GI Resection – Large	HIS5	Small Bowel Resection – Benign/Malignant	£484.00
GI Resection – Large	HIS5+HIS5	Whipple's Procedure/Pancreatectoduodenectomy	£958.00
Gynaecology	HIS2	Cervical Biopsy	£247.00
Gynaecology	HIS1	Cervical Polyp	£165.00
Gynaecology	HIS4	Cervix	£371.00
Gynaecology	HIS1	Curettings – Endocervical	£165.00
Gynaecology	HIS1	Curettings – Endometial	£165.00
Gynaecology	HIS2	Endometrial Biopsy	£247.00
Gynaecology	HIS1	Endometrial Pipelle	£165.00
Gynaecology	HIS1	Endometrial Polyp	£165.00
Gynaecology	HIS2	Fallopian Tube	£247.00
Gynaecology	HIS3	Fibroids	£288.00
Gynaecology	HIS2	Fimbrial Cyst	£247.00
Gynaecology	HIS4	LLETZ and/or Cone Biopsy	£371.00
Gynaecology	HIS2	Mastoid	£247.00
Gynaecology	HIS2	Ovarian Biopsy	£247.00
Gynaecology	HIS2	Ovarian Cyst	£247.00
Gynaecology	HIS1	Ovarian Pipelle	£165.00
Gynaecology	HIS5	Ovaries (Bilateral)	£484.00
Gynaecology	HIS3	Ovary (Unilateral)	£288.00
Gynaecology	HIS4	Ovary and Tube (Unilateral)	£371.00
Gynaecology	HIS5	Ovary and Tube (Bilateral)	£484.00
Gynaecology	HIS2	Pelvic Mass	£247.00
Gynaecology	HIS1	Peritoneal Biopsy	£165.00
Gynaecology	HIS5	Placenta	£484.00
Gynaecology	HIS2	Pouch of Douglas	£247.00
Gynaecology	HIS1	Products of Conception	£165.00

CATEGORY	CODE	TISSUE SAMPLE	PRICE
Gynaecology	HIS2	Uterine Polyp	£247.00
Gynaecology	HIS4	Uterus	£371.00
Gynaecology	HIS5	Uterus and Cervix	£484.00
Gynaecology	HIS5	Uterus, Tubes And Ovaries	£484.00
Gynaecology	HIS1	Vulval Biopsy	£165.00
Haemato-Oncology	HIS5	Bone Marrow	£484.00
Haemato-Oncology	HIS2	Lymph Node	£247.00
Haemato-Oncology	HIS3	Lymph Node (Lymphoma)	£288.00
Haemato-Oncology	HIS3	Lymph Node (Metastatic Disease)	£288.00
Haemato-Oncology	HIS5	Spleen	£484.00
Haemato-Oncology	HIS5	Thymus	£484.00
Lung – Biopsy	HIS3	Lung Biopsy	£288.00
Lung – Resections	HIS3	Lung Lesion Small Wedge Resection	£288.00
Lung – Resections	HIS5+HIS5	Lung Resection	£958.00
Lung – Resections	HIS5	Lung Tumour Resection +/- Nodes	£484.00
Neurosurgery	HIS3	Brain Biopsy	£288.00
Neurosurgery	HIS3	Brain Resection	£288.00
Neurosurgery	HIS5+HIS5	Muscle Biopsy	£958.00
Neurosurgery	HIS3	Pituitary Gland – Resection	£288.00
Neurosurgery	HIS3	Spinal Tumour Biopsy	£288.00
Neurosurgery	HIS3	Spinal Tumour Resection	£288.00
Neurosurgery	HIS4	Vertebrea	£371.00
Opthalmic	HIS1	Conjunctival Biopsy	£165.00
Opthalmic	HIS1	Cornea	£165.00
Opthalmic	HIS4	Globe/Removal of Eye	£371.00
Opthalmic	HIS2	Lacrimal Gland Biopsy/Excision	£247.00
Opthalmic	HIS1	Orbit Contents Of Eye	£165.00
Orthopaedic	HIS1	Bone Biopsy	£165.00
Orthopaedic	HIS2	Bone Currettings	£247.00
Orthopaedic	HIS2	Bursa	£247.00
Orthopaedic	HIS2	Duputrenes Contracture	£247.00
Orthopaedic	HIS3	Femoral Head Resection	£288.00
Orthopaedic	HIS1	Ganglion Cyst	£165.00
Orthopaedic	HIS3	Joint Resurfacing/Redo Prosthesis Capsule	£288.00
Orthopaedic	HIS1	Neuroma	£165.00
Orthopaedic	HIS2	Synovial Biopsy	£247.00
Orthopaedic	HIS3	Tendon	£288.00
Skin and Soft Tissue	HIS2	Abscess	£247.00
Skin and Soft Tissue	HIS3	Alopecia Biopsies	£288.00
Skin and Soft Tissue	HIS1	Cyst Excision	£165.00
Skin and Soft Tissue	HIS1	Fossa	£165.00
Skin and Soft Tissue	HIS1	Granuloma	£165.00
Skin and Soft Tissue	HIS3	Lipoma	£288.00
Skin and Soft Tissue	HIS2	Skin Excision BCC/SCC	£247.00

CATEGORY	CODE	TISSUE SAMPLE	PRICE
Skin and Soft Tissue	HIS1	Nail	£165.00
Skin and Soft Tissue	HIS1	Pilonidal Sinus	£165.00
Skin and Soft Tissue	HIS5	Sentinel Nodes In Skin Cancer (Melanoma)	£484.00
Skin and Soft Tissue	1SK	Skin Biopsy (1 specimen)	£134.00
Skin and Soft Tissue	2SK	Skin Biopsy (2 specimens)	£216.00
Skin and Soft Tissue	3SK	Skin Biopsy (3 specimens)	£247.00
Skin and Soft Tissue	4SK	Skin Biopsy (4 specimens)	£309.00
Skin and Soft Tissue	5SK	Skin Biopsy (5 specimens)	£422.00
Skin and Soft Tissue	6SK	Skin Biopsy (6 specimens)	£484.00
Skin and Soft Tissue	7SK	Skin Biopsy (7 specimens	£556.00
Skin and Soft Tissue	8SK	Skin Biopsy (8 specimens)	£618.00
Skin and Soft Tissue	9SK	Skin Biopsy (9 specimens)	£680.00
Skin and Soft Tissue	10SK	Skin Biopsy (10 specimens)	£762.00
Skin and Soft Tissue	11SK	Skin Biopsy (11-15 specimens)	£865.00
Skin and Soft Tissue	HIS3	Soft Tissue Tumour Biopsy	£288.00
Skin and Soft Tissue	HIS3	Soft Tissue Tumour Resection	£288.00
Urology – Biopsy	HIS1	Bladder Biopsy	£165.00
Urology – Biopsy	HIS1	Core Biopsy (Urology)	£165.00
Urology – Biopsy	HIS2	Hydrocele	£247.00
Urology – Biopsy	HIS2	Penile Biopsy	£247.00
Urology – Biopsy	HIS1	Prostate biopsy	£165.00
Urology – Biopsy	2H1	Prostate biopsies x 2	£247.00
Urology – Biopsy	3H1	Prostate biopsies x 3	£288.00
Urology – Biopsy	4H1	Prostate biopsies x 4	£371.00
Urology – Biopsy	5H1	Prostate biopsies x 5	£371.00
Urology – Biopsy	6H1	Prostate biopsies x 6	£371.00
Urology – Biopsy	7H1	Prostate biopsies x 7	£371.00
Urology – Biopsy	8H1	Prostate biopsies x 8	£371.00
Urology – Biopsy	9H1	Prostate biopsies x 9	£484.00
Urology – Biopsy	10H1	Prostate biopsies x 10-12	£484.00
Urology – Biopsy	HIS5	Testicular Biopsy (Bilateral)	£484.00
Urology – Biopsy	HIS4	Testicular Biopsy (Unilateral)	£371.00
Urology – Biopsy	HIS1	Urethral Biopsy	£165.00
Urology – Biopsy	HIS2	Vasectomy	£247.00
Urology – Resection	HIS5+HIS5	Cystoprostatectomy	£958.00
Urology – Resection	HIS3	Epididymis	£288.00
Urology – Resection	HIS1	Foreskin/Circumcision	£165.00
Urology – Resection	HIS5	Nephrectomy/Kidney	£484.00
Urology – Resection	HIS5+HIS5	Prostatectomy	£958.00
Urology – Resection	HIS5+HIS5	Radical Cystectomy	£958.00
Urology – Resection	HIS3	Testis	£288.00
Urology – Resection	HIS3 - HIS5+	TURBT (dependent on number of blocks)	£876.00
Urology – Resection	HIS3 – HIS5	TURP (dependent on number of blocks)	£773.00

Special instructions for samples

- Contact the laboratory for special sample tubes/ containers/instructions.
- 2 Confirmation of not negative drug screens by GCMS may take up to 5 days.
- 3 Clinical history essential and protect from light.
- 4 Send to the laboratory without delay.
- 5 Do not send sample to the laboratory between Friday noon and Monday morning.
- 6 Contact the Referrals Department before taking and sending sample to the laboratory.
- 7 Sample should be separated and frozen if sending overnight.
- 8 DRP Form required. DRP Form can be found at the back of the guide.
- 9 Clinical history must be provided.
- 10 Contact the laboratory for special stability tubes for lymphocyte subsets – or take an EDTA sample and ensure same day delivery to the laboratory, Monday to Friday noon (do not send sample between Friday noon and Monday morning).
- 11 Patient consent required. Consent Form can be found at the back of this guide.
- 12 Please provide one sample for each person being tested.
- 13 Protect from light.
- 14 Provide details of travel history.
- 15 Ammonia

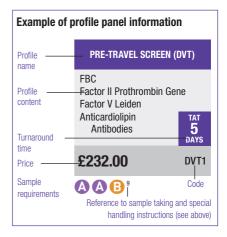
Sample: EDTA plasma only. Full tubes and tightly stoppered. On ice, centrifuged and analysed 20-30 mins post venepuncture (or plasma can be frozen). If haemolysed gives falsely high results. Patient: Fasting. Avoid smoking.

16 Lactate

Sample: Fluoride oxalate plasma only.
On ice and separate from cells 15-30 mins, analyse promptly. Handle with care as sweat contains large amounts of lactate. No tourniquet. Patient: Rest 30 mins prior to test.

- 17 Homocysteine Should be spun and separated with 1 hour of venepuncture.
- 18 Citrate Samples Samples should be double spun and separated and frozen within 4-8 hours of sample taking, if a delay is expected with transportation to the laboratory, samples must be transported as frozen.

- 19 Must include patient's age, height and weight.
- 20 Sample types: FCRU or PCR swab or TPV or Semen.
- 21 Urine cytology container, ideally first catch, mid-morning specimen.
- 22 Must be fresh.
- 30 Collect sample at end of exposure.
- 33 Sample must be labelled by hand with first name, family name, gender and date of birth detailed on sample and form. Do not use labels other than the tube label.
- 34 Samples must arrive in the laboratory on the same day of sample taking or contact the laboratory.
- 35 Patient should be fasting and resting for 30 mins before sample taking. Samples need handling urgently.
- 36 Renin: Sample collected either upright/active or resting/supine (3 hours lying).
- 37 Provide sample time and date of collection.
- 38 EDTA sample should not be separated: send whole blood.
- 39 Urgent samples have a 3 day TAT if genotype is required for prenatal diagnosis or two weeks TAT if urgent for other factors.
- 40 Informed Consent is required for these tests.
- 41 Recommendation for patient to attend Patient Reception for sample taking.
- 42 LGV can be added to a positive chlamydia sample using the same swab if requested within 4 days of receipt of result.



TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
1,25 Vitamin D	D3	В	5-8 days	£120.00	140
2-Butanone GC	BUTA	RU	7 days	£125.00	152
2-Furoic Acid	2FA	RU	10 days	£211.00	152
4th Generation HIV1& 2 Abs/p24 Ag (28 days post-contact)*	THIV	⊕ Tiny™	4 hours	£46.00	90
5 HIAA	RU5H	PU ¹	5 days	£83.00	23
5' Nucleotidase	5NT	В	5 days	£69.00	23
6-Thioguanine Nucleotides	TGN	AA	2 weeks	£147.00	23
7 STI's by PCR	PP12	FCRU/PCR/TPV	2 days	£240.00	21, 61, 71, 156
11 Deoxycorticosterone	DEOX	В	10 days	£103.00	45
11 Deoxycortisol	11DC	(Frozen)	10 days	£158.00	45
16S rRNA Bacterial Gene	16S	J	1 week	£225.00	36
17 Hydroxyprogesterone	170H	В	5 days	£97.00	45
18S rRNA Fungal Gene	18S	J	1 week	£225.00	36
21 Hydroxylase Ab's	21HA	(Frozen)	10 days	£192.00	23
Acetone – Blood	ACTB	(A) or (H)	2 weeks	£94.00	152
Acetone – Urine	ACTU	RU	5 days	£94.00	152
Acetylcholine Receptor Autoantibodies	ACRA	B ⁴	5 days	£181.00	23
Acetylcholinesterase Isoenzymes	ACEI	AF	7 days	£194.00	23
Acid Phosphatase – Total	APT	В	5 days	£42.00	23
ACTH (Adreno Corticotrophic Hormone)	ACTH	(Plasma Frozen) ⁴¹	1 day	£113.00	45
Activated Protein C Resistance	APCR	(Frozen) 4,18	3 days	£87.00	33
Acute Viral Hepatitis Screen	AHSC	В	4 hours	£149.00	73
ADAMTS – 13 Activity Assay	CP13	(Frozen) ^{4,18}	3 days	£106.00	33
Adenosine Deaminase	AD	A/B/Fluid	3 weeks	£244.00	23
Adenovirus by PCR	ADV	PCR/VS/SC	7 days	£228.00	92
Adiponectin	ADIP	B	2 weeks	£194.00	23
Adrenal Cortex Antibodies	ACTX	B	2 days	£52.00	73
Albumin	ALB	В	4 hours	£24.00	23
Alcohol (Legal) Police Blood Sample	LALC	Police Sample	3 weeks	£232.00	23
Alcohol (Medical) [Do not use alcohol swab prior to sample taking]	ALC0	G 1	4 hours	£68.00	23
Alcohol (Urine)	UALC	RU	4 hours	£68.00	23
Alcohol Profile	AP	ABB G	5-7 days	£162.00	149-150, 152
Alcohol Profile 2	ALCP	A A B B G RU	5-7 days	£220.00	149-150, 152
Aldolase	ALD0	B	5 days	£50.00	23
Aldosterone	ALDN	B	5 days	£111.00	45
Aldosterone (Urine)	UALD	PU	5 days	£113.00	45
Alk Phosphatase Isoenzymes	APIE	B	5 days	£98.00	23
Alkaline Phosphatase	ALP	<u> </u>	4 hours	£24.00	23
Allergen Component Profiles					137

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Allergy – Individual Allergens See list on page 133	ALLE	В	2 days	£33.00	130
Allergy Profile (Mediterranean)	ALMD	B	2 days	£141.00	129-130
Allergy Profile (Middle East)	ALME	В	2 days	£130.00	129-130
Allergy Profile (UK)	ALUK	B	2 days	£164.00	129-130
Allergy Profile 1 (Food & Inhalants)	1A	BB	2 days	£470.00	130-131
Allergy Profile 2 (Inhalants)	2A	3	2 days	£259.00	130-131
Allergy Profile 3 (Food)	3A	B	2 days	£234.00	130-131
Allergy Profile 4 (Nuts & Seeds)	4A	B	2 days	£332.00	130-131
Allergy Profile 5 (Children's Panel)	5A	B	2 days	£234.00	130-131
Allergy Profile 6 (Shellfish)	6A	B	2 days	£211.00	130, 132
Allergy Profile 7 (Finfish)	7A	B	2 days	£211.00	130, 132
Allergy Profile 8 (Cereal – singles)	8A	B	2 days	£123.00	130, 132
Allergy Profile 9 (Antibiotics)	9A	B	2 days	£96.00	130, 132
Allergy Profile 10 (Insects)	10A	3	2 days	£150.00	130, 132
Allergy Profile 11 (Combined Shellfish/Finfish)	11A	B	2 days	£169.00	130, 132
Allergy Profile 12 (Milk & Milk Proteins)	12A	B	2 days	£186.00	130, 132
Allergy Profile 13 (Stone fruit/Rosaceae family)	13A	В	2 days	£186.00	130, 132
Alpha 1 Antitrypsin (Serum)	A1AT	3	1 day	£98.00	23
Alpha 1 Antitrypsin (Stool)	A1AF	RF	10 days	£75.00	23
Alpha 1 Antitrypsin Genotype – PI*M, PI*S, PI*Z	GENE	A 9	4 weeks	£263.00	23
Alpha 1 Glycoprotein	OROS	B	5 days	£137.00	23
Alpha 1 Microglobulin	A1MG	RU 1,22	10 days	£70.00	23
Alpha 2 Macroglobulins	A2MG	B	5 days	£94.00	23
Alpha Feto Protein	AFP	B	4 hours	£48.00	45, 95
Alpha Feto Protein (Maternal)	AFPM	3	4 hours	£48.00	23
Alpha Gal Components (related to red meat)	ZZ37	B	2 days	£56.00	137
Alpha-1 Antitrypsin Genotype – PI*M, PI*S, PI*Z	GENE	A 9	4 weeks	£265.00	103
ALT (Alanine Aminotransferase) (SGPT)	ALT	В	4 hours	£24.00	23
Alternaria Components	ZZ1	В	2 days	£56.00	137
Aluminium	ALUM	®	7 days	£64.00	23, 151
Aluminium (Urine)	ALUU	RU	1-2 weeks	£86.00	152
Amenorrhoea Profile	AMEN	В	4 hours	£121.00	45, 51
Amikacin Level (State dose)	AMIK	B ⁴	4 hours	£98.00	125
Amino Acid (Serum/Plasma)	AMIN	В	7 days	£293.00	23
Amino Acid Quantitative (Urine)	UAAQ	RU	7 days	£293.00	23
Amino-Laevulinic Acid (Urine)	RUAL	100mls PU	5 days	£56.00	23
Amitriptyline	AMTR	A ⁴	5 days	£93.00	126
Ammonia	AMM0	A (Frozen) ¹⁵	4 hours	£76.00	23
Amniocentesis – rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days)	ABK	AF ⁹	5-15 days	£520.00	103

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Amniocentesis – rapid PCR diagnosis for common aneuploidies (2 days) + culture (10-15 days)	APCC	AF ⁹	2-15 days	£485.00	103
Amoebic (E. histolytica) Antibodies	AFAT	В	2 days	£43.00	81
Amoebic (E. histolytica) PCR	AMAG	RF	2 days	£44.00	81
Amphetamines – Blood	AMPB	BB	5 days	£73.00	149
Amylase	AMY	В	4 hours	£41.00	23
Amylase (Urine)	UAMY	CU	4 hours	£41.00	23
Amylase Isoenzymes	AMYI	В	5 days	£156.00	23
Amyloidosis (Amyloid A Protein)	SAA	В	5 days	£87.00	23
Anaemia Profile	ANAE	AAB	2 days	£141.00	32, 35
Anafranil (Clomipramine)	CHLO	A	7 days	£98.00	126
ANCA (Anti-Neutrophil Cytoplasmic Abs)	ANCA	В	2 days	£94.00	73
Andropause Profile	ANDP	BB	8 hours	£150.00	45, 50
Androstanediolglucoronide	ANDG	В	3 weeks	£118.00	23
Androstenedione	ANDR	(Frozen)	1 day	£76.00	45
Angiotensin Converting Enzyme	ACE	В	4 hours	£72.00	23
Angiotensin Converting Enzyme – CSF	ACEF	CSF (Frozen)	2 weeks	£100.00	23
Angiotensin II	ANG2	(Frozen)	2 weeks	£119.00	23
Antenatal Profile	ANTE	A A ³³ B B G	3 days	£437.00	32, 35
Anti CCP Antibodies (RF)	CCP	В	2 days	£43.00	73
Anti Phosphatidylserine Antibodies	PHTS	B	5 days	£122.00	73
Anti Phospholipase A2 Receptor	AA2R	B	3 weeks	£85.00	73
Anti Sla (Soluble Liver Antigen) Abs	LSA	B	10 days	£100.00	73
Anti-Actin Antibodies	AAA	В	5 days	£70.00	73
Anti-Basal Ganglia Antibodies	ABGA	B	3 weeks	£356.00	73
Anti-Liver Cytosol Antibodies	ALCA	B	5 days	£64.00	73
Anti-MOG [Myelin Oligodendrocyte Glycoprotein] Antibodies	AMOG	3	3 weeks	£103.00	73
Anti-MUSK Antibodies	MUSK	В	2 weeks	£277.00	73
Anti-Ri Antibodies	RIAB	В	3 days	£58.00	73
Antidiuretic Hormone	ADH	(Plasma Frozen) ⁴	10 days	£132.00	45
Antimony (Urine)	ANTI	RU ³⁰	10 days	£85.00	23
Antimullerian Hormone (AMH Plus)	AMH	В	4 hours	£105.00	23, 45, 50
Antinuclear Antibodies (titre & pattern)	ANAB	В	2 days	£44.00	73
Antistaphylolysin Titre (SGOT)	ASTT	В	2 days	£46.00	73
Antistreptolysin Titre/ASOT	ASLT	B	2 days	£48.00	73
Antisulfatide Antibodies	ASA	В	5 weeks	£208.00	73
Antithrombin III	A111	(Frozen) 4,9,18	3 days	£66.00	33
AP50 Alternative Hemolytic Complement	AP50	(Frozen)	2 weeks	£110.00	23
Apolipoprotein A1 (12 hours fasting)	APOA	B	3 days	£61.00	23
Apolipoprotein B (12 hours fasting)	APOB	<u> </u>	3 days	£61.00	23
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Apolipoprotein C (12 hours fasting)	AP0C	B	3 months	£73.00	24

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Apolipoprotein E genotype – E2, E3, E4	APEG	A 9	5 days	£185.00	104
Apple Components	ZZ36	В	2 days	£83.00	137
APTT/KCCT	KCCT	C 18	4 hours	£34.00	32
Aquaporin 4 Antibodies (Neuromyelitis Optica)	AQUA	В	2 weeks	£224.00	73
Arbovirus Antibodies/Abs	ARB0	B 9,14	3 weeks	£156.00	92
Array CGH (Comparative Genomic Hybridisation)	CGH	CVS/AF/(A) (1)9	10 days	£650.00	104
Arsenic (Blood)	ARS	A or 🕕	5 days	£67.00	24, 151
Arsenic (Urine)	ARSE	RU ³⁰	5 days	£67.00	24, 152
Arylsulphatase A	ARYL	1 5,6	8 weeks	£264.00	24
Ascariasis Serology	ASC	В	5 days	£70.00	92
Ashkenazi Jewish Carrier Screen	ASHJ	A 9	4 weeks	£600.00	104, 119, 124
Aspartate Transaminase (AST) (SGOT)	AST	В	4 hours	£24.00	24
Aspergillus Components	ZZ2	В	2 days	£164.00	137
Aspergillus Precipitins	ASPP	В	5 days	£103.00	92
Atypical Antibody Screen (handwritten tube label)	AASC	A 22,33	2 days	£47.00	32
Autoantibody Profile I	AUT0	B	2 days	£123.00	73, 79
Autoantibody Profile II	END0	B	2 days	£116.00	73, 79
Avian Precipitins (11 Species)	AVIA	B	5 days	£300.00	73
Azoospermia – karyotype + cystic fibrosis screen + polyT(5T) + Y deletions	GRP	A (1) 9	10-15 days	£740.00	104
Babesia Antibodies	BABE	В	3 weeks	£88.00	92
Babesia Parasites	BABP	A ⁴	7 days	£119.00	92
Bancroftia/Oncerciasis/Filarial Antibodies	TFIF	B 14	2 weeks	£138.00	92
Bartonella (IgG/IgM)	CAT	B	5 days	£169.00	92
BCR/ABL Quantitative – fusion gene sizes p190 + p210 – MUST arrive in the laboratory within 48 hours, before 12pm on Fridays	BCRA	A A 9	10 days	£290.00	104
Becker Muscular Dystrophy - deletions/duplications	DND	A 9	10 days	£470.00	104
Behcet's Disease – HLA Tissue Typing B*51	B51	A 9	10 days	£190.00	104
Bence-Jones Protein	RBJP	1x30mls (RU)	5 days	£82.00	24
Benzene	BENZ	J ^{1,6}	3 days	£109.00	152
Beta 2 Glycoprotein 1 Abs	B2GP	В	5 days	£100.00	73
Beta 2 Microglobulin (Serum)	B2MG	B	2 days	£78.00	24, 152
Beta 2 Microglobulin (Urine)	UB2M	RU	3 days	£88.00	24, 152
Beta Carotene	CAR0	<u>B</u>	5 days	£112.00	140
Beta D Glucan	XBDG	В	2 weeks	£105.00	36
Beta HCG (Oncology)	HCGQ	В	4 hours	£48.00	95
Beta HCG (Quantitative)	QHCG	B	4 hours	£49.00	45
Beta-Glucuronidase (Sly Disease)	BGLU	(1) (1) 9,4	8 weeks	£224.00	24
Bicarbonate	HC03	В	4 hours	£20.00	24

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Bile Acids – Serum	BILE	В	4 hours	£53.00	24
Bilharzia (Schistosome) Antibodies	BILH	B 14	10 days	£94.00	81
Bilharzia (Schistosome) Antigen	SHAG	В	15 days	£78.00	81
Bilharzia (Urine)	USCH	RU ¹⁴	8 hours	£53.00	81
Bilirubin (Direct/Indirect)	DBIL	В	4 hours	£24.00	24
Bilirubin (Total)	BILI	В	4 hours	£24.00	24
Bilirubin (Urine)	UBIL	RU	1 day	£26.00	24
Biotin	BIOS	В	1 week	£125.00	140
Biotinidase	BIOT	(Frozen plasma) ⁴	3 weeks	£150.00	24
Birch Components	ZZ3	В	2 days	£138.00	137
Bismuth	BISM	В	5 days	£130.00	24
BK Polyoma Virus by PCR	BKPV	A/B/RU	5 days	£191.00	92
Blood Culture	BCUL	2x BC ⁴	6 days +	£66.00	36
Blood Film Examination	FILM	A	1 day	£28.00	32
Blood Group [†]	AB0	A 22,33	2 days	£51.00	32
BNP (NT-pro BNP)	BNP	В	4 hours	£76.00	24, 45
Bone Alkaline Phosphatase	BALP	(Frozen)	2 weeks	£97.00	24
Bone Marrow (Aspirate)	BMAS	J ¹	14 days	£431.00	34
Bone Marrow (Trephine Biopsy)	BMI	J ¹	3 days	£522.00	34
Bone Screen	BONE	(B) CU	4 hours	£64.00	24, 31
Bone Screen (Bloods only)	BON2	В	4 hours	£104.00	24, 31
Borrelia Antibodies (Lyme Disease) IgG, IgM	BORR	B 9,14	2 days	£76.00	73, 81
Borrelia Antibodies (Lyme Disease) IgM	BORM	В	2 days	£59.00	73, 81
Borrelia Confirmation (Immunoblot)	BORC	B 9,14	10 days	£285.00	73, 81
Brazil Components	ZZ4	В	2 days	£56.00	137
Breast Cancer – BRCA1 + BRCA2 only gene sequencing + deletions/duplications	GENE	A	4 weeks	£500.00	104
Breast Cancer NGS Panel – full sequencing across 14 genes + deletions/duplications. Requires patient informed consent	GENE	A A 9,11	4 weeks	£900.00	95, 104
Bromide	BROM	<u>B</u>	3 days	£119.00	152
Brucella Serology	BRUC	B 9	2-3 weeks	£79.00	73
BUN (Blood Urea Nitrogen)	BUN	<u>B</u>	4 hours	£26.00	24
C-KIT (Common mutation KIT D816V Gene)	GENE	A	4 weeks	£230.00	105
C Peptide	CPEP	<u>B</u>	3 days	£108.00	45
C Reactive Protein	CRP	B	4 hours	£43.00	24
C Reactive Protein (High Sensitivity)	HCRP	<u>B</u>	4 hours	£43.00	24
C1 Esterase Inhibitor	C1EI	<u>B</u>	5 days	£75.00	73
C1 Esterase: Function & Total	FC1E	(Plasma Frozen) ^{4,18}	10 days	£159.00	24
C1q Binding Immune Complex	IMCP	<u> </u>	5 days	£85.00	24
C3 Complement	C3	В	4 hours	£44.00	73
C3/C4 Complement	COMP	B	4 hours	£73.00	73
C4 Complement	C4	<u> </u>	4 hours	£44.00	73

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
CA 15-3	C153	В	4 hours	£102.00	95
CA 19-9	C199	B	4 hours	£102.00	95
CA 50	CA50	В	5 days	£127.00	95
CA 72-4	C724	B	5 days	£110.00	95
CA 125	C125	В	4 hours	£102.00	95
Cadmium (Blood)	CADM	(A) or (1)	5 days	£67.00	24, 151
Cadmium (Urine)	URCD	RU ³⁰	5 days	£67.00	24, 152
Calcitonin	CAT0	(Frozen) ⁴	1 day	£112.00	45
Calcium	CA	В	4 hours	£24.00	24
Calcium (24 hr Urine)	UCA	PU	4 hours	£26.00	24
Calcium/Creatinine Ratio	CACR	RU 😉	4 hours	£46.00	24
Calprotectin	CALP	RF	5 days	£78.00	73
Calprotectin/Elastase Profile	CEP	RF	5 days	£129.00	73, 79
Campylobacter Jejuni Antibodies	CJAB	B	5 days	£65.00	73
Candida Antibodies	CANA	B	5 days	£97.00	73
Candida Antigen	CCAG	B	5 days	£118.00	73
Cannabinoids (Urine) Screen	CANN	RU	1 day	£44.00	149
Carbamazepine (Tegretol)	CARB	B	4 hours	£52.00	126
Carbapenemase producing organism screen	MDR	STM (rectal)	4-5 days‡	£94.00	36
Carbohydrate Deficient Glycoprotein	CDG	В	2 weeks	£238.00	24
Carbohydrate Deficient Transferrin (CDT)	CDT	B 4	3 days	£130.00	24
Carboxyhaemoglobin	СВНВ	A	1 week	£67.00	32
Carcino Embryonic Antigen	CEA	В	4 hours	£64.00	95
Cardiac Enzymes (not chest pain)	CENZ	В	4 hours	£40.00	24
Cardiolipin Antibodies (IgG+IgM)	ACAB	В	2 days	£66.00	73
Cardiovascular Risk Profile 1	PP10	B B	3 days	£294.00	21, 24, 31
Cardiovascular Risk Profile 2	PP11	BBB C 34	3 days	£355.00	21, 24, 31
Carnitine – Free & Total	CARN	(Frozen Plasma)	10 days	£130.00	24
Carotenes	CAR0	B 13	5 days	£112.00	140
Cartilage Antibodies	ACA	B	5 days	£105.00	73
Cashew Components	ZZ35	B	2 days	£56.00	137
Cat Components	ZZ5	B	2 days	£83.00	137
Cat Scratch Fever (Bartonella IgG+IgM)	CAT	B	5 days	£169.00	92
Catecholamines (Plasma)	CATE	(Plasma Frozen) ⁴	5 days	£100.00	45
Catecholamines (Urine)	UCAT	PU ¹	5 days	£127.00	45
CCP Antibodies (RF)	CCP	B	2 days	£43.00	73
CD3/CD4/CD8	LYSS	A 10/Chex	1 day	£208.00	34, 90
CD16	CD16	A 4	1 day	£100.00	34
CD19 B Cells	CD19	A 4	1 day	£100.00	34
CD20	CD20	A 10/Chex	2 days	£109.00	34
CD25	CD25	A 10/Chex	2 days	£73.00	34
CD56	CD56	A 4	1 day	£70.00	34
CD57	CD57	A	1 day	£97.00	34

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Celery Components	ZZ6	B	2 days	£56.00	137
Centromere Autoantibodies	CAB	3	2 days	£78.00	73
Ceruloplasmin	CERU	B	1 day	£46.00	24, 140
Cervical Cytology	PAPT will incl. HPV	TPV	2-3 days	£71.00 + HPV £59.00	158
CH50 (Classical pathway)	CH50	(Frozen) ⁴	4 days	£97.00	73
Chagas Disease Serology (S.American Trypanosomiasis) T. Cruzi	CHGA	B 9,14	10 days	£122.00	92
Chest Pain Profile	CPP	B	STAT	£111.00	24, 31
Chikungunya Virus Abs	CHIK	B 9,14	10 days	£156.00	92
Chlamydia (PCR swab)	SPCR	PCR	2 days	£64.00	36, 61
Chlamydia (Thin Prep)	TPCR	TPV	2 days	£75.00	36, 61, 156
Chlamydia (Urine)	CPCR	FCRU	2 days	£64.00	36, 61
Chlamydia Species Specific Ab Screen	CHAB	B	2 days	£86.00	73, 79
Chlamydia/Gonorrhoea (PCR Swab)	SCG	PCR	2 days	£64.00	61
Chlamydia/Gonorrhoea (Rectal)	RSCG	PCR	2 days	£64.00	61
Chlamydia/Gonorrhoea (Thin Prep)	TCG	TPV	5 days	£75.00	61, 156
Chlamydia/Gonorrhoea (Throat)	TSCG	PCR	2 days	£64.00	61
Chlamydia/Gonorrhoea (Urine)	CCG	FCRU	2 days	£64.00	61
Chlamydia/Gonorrhoea/Trichomonas by PCR	CCGT	FCRU/PCR/TPV	2 days	£97.00	61
Chloride	CL	B	4 hours	£20.00	24
Cholesterol	СНО	B	4 hours	£22.00	24
Cholesterol (Familial Hypercholesterolaemia)					24, 108
Cholinesterase (Blood)	CHRC	0	5 days	£84.00	24, 152
Cholinesterase (Serum/Pseudo)	CHPS	B	4 hours	£45.00	25, 152
Chromium (Blood)	CHR0	A	5 days	£59.00	25, 151
Chromium (Urine)	URCR	RU ³⁰	10 days	£59.00	25, 152
Chromogranin A	CGA	В	5 days	£132.00	25
Chromogranin A & B	MTAB	J 1	3 weeks	£232.00	25
Chromosome Analysis (Amniocentesis) – rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days)	ABK	AF ⁹	5-15 days	£520.00	105
Chromosome Analysis (Amniocentesis) – rapid PCR diagnosis for common aneuploidies (2 days) + culture (10-15 days)	APCC	AF ⁹	2-15 days	£485.00	105
Chromosome Analysis (Amniocentesis) – culture only	ACUL	AF ⁹	10-15 days	£355.00	105
Chromosome Analysis (Blood)	KARY	(1) 9	8-18 days	£370.00	105
Chromosome Analysis (Chorionic Villus) – rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days)	CBK	CVS ⁹	5-15 days	£520.00	105
Chromosome Analysis (Chorionic Villus) – rapid PCR diagnosis for common aneuploidies (2 days) + culture (10-15 days)	CVPC	CVS 1,9	2-15 days	£485.00	105

Chromosome Analysis (Product of Conception)	TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
BOBS rapid aneuploidy diagnosis for all chromosomes (6 days) + culture (25 days) Chromosome Analysis (Products of Conception) Chromosome Analysis (Solid Tissue) PROC Fetal tissue 1:3 4-5 weeks 2385.00 106 Chromosome Analysis (Solid Tissue) PROC Chromosome Analysis (Solid Tissue) STEM/ SUSP Chronic Fatigue Syndrome Profile VIP1 ② or Chex+ ③ 10 5 days 233.00 73,79 Chronic Fatigue Syndrome Profile VIP1 ③ or Chex+ ⑤ 10 5 days 233.00 73,79 Citrate (Blood) CITR ⑤ 5 days 27.00 25 Citrate (Urine) UCIT CUI (Frozen) 5 days 27.00 25 Citrate (Urine) UCIT CUI (Frozen) 5 days 298.00 25 Citobazam CLOB ⑥ 5 days 298.00 126 Clobazam CLOB ⑥ 7 days 298.00 126 Clobazam CLOB ⑥ 7 days 298.00 126 Clomipramine (Anafranit) CHLO ⑥ 7 days 298.00 126 Clomipramine (Anafranit) CHLO ⑥ 7 days 298.00 126 Clostridium Difficile Toxin by PCR CLOS RF* 2 days 287.00 36 CNNV DNA (by PCR) CMV DNA (by PCR) CMV DNA (by PCR) CMW PR) CMW PR) CMW Semen 7 days 2212.00 32 CMNV DNA by PCR (Semen) SCVM Semen 7 days 2212.00 32 CMNV DNA by PCR (Grien) CMNV Resistance CRUR 3 days 253.00 32,35 Coagulation Profile 1 CLPF ③ 10 days 253.00 32,35 Coagulation Profile 2 Coccidiodiomycosis Antibodies Coccidiodiomycosis Antibodies Coccidia Clisaese – HLA DQ2/OR9 Genotype QUAR 3 days 254.00 22 Coccidia Clisaese – HLA DQ2/OR9 Genotype Coccidia Clisaese – HLA DQ2/OR9 Genotype Collade Clisaese – HLA DQ2/OR9 Genotype Collade Glisten Profile 2 Collade Glisten Profile 2 Collade Glisten Profile 3 Coreal Clisten Consolic Hybridisation A veeks CROUND A veeks CROUND A v	* ` `	CVSC	CVS 1,9	10-15 days	£355.00	105
Products of Conception Products of Concep	- BOBs rapid aneuploidy diagnosis for all		Placental Sample 1,9	5-25 days	£520.00	105, 124
Chromosome Analysis (Stem Cells) STEM/ SUSP Culture/Fixed cells Contact lab £380.00 106 Chronic Fatigue Syndrome Profile VIP1 ♣ or Chex+ ♣ ¹¹¹ 5 days £332.00 73, 79 Citrate (Blood) CITR ♣ or Chex+ ♠ ¹¹¹ 5 days £72.00 25 Citrate (Urine) UCIT CU (Frozen) 5 days £74.00 25 CK (MB Fraction) CKMB ♠ 4 hours £40.00 25 CK (MB Fraction) CKMB ♠ 4 hours £40.00 25 CK (Soenzymes CKIE ♠ 5 days £98.00 25 Clobazam CLOB ♠ 5 days £98.00 126 Clomipramine (Anafranii) CHLO ♠ 7 days £98.00 126 Closazepam CLON ♠ 7 days £88.00 126 Clostridium Difficile Toxin by PCR CLOS RF* 2 days £87.00 36 CMV DNA (by PCR) CMYP ♠ 5 days £212.00 92 CMV DNA by CR (Urine) CMVP ♠ 6 days		PROC		20-25 days	£385.00	106
Chronic Fatigue Syndrome Profile VIP1 ② or Chex+ ③ □ 5 days	Chromosome Analysis (Solid Tissue)	PROC	Fetal tissue 1,9	4-5 weeks	£385.00	106
Citrate (Blood) CITR 3 5 days £72.00 25 Citrate (Urine) UCIT CU (Frozen) 5 days £74.00 25 CK (MB Fraction) CKMB 3 4 hours £40.00 25 CK (MB Fraction) CKMB 3 4 hours £40.00 25 CK (MB Fraction) CKMB 3 4 hours £40.00 25 CK (Soenzymes) CKIE 3 5 days £98.00 126 Clobazara CLOB 4 7 days £98.00 126 Clomazapam CLON 4 7 days £98.00 126 Clostridium Difficile Toxin by PCR CLOS RF* 2 days £87.00 36 CMV DNA (by PCR) CMVP 4 5 days £212.00 92 CMV DNA by PCR (Wirine) CMVU RU 5 days £212.00 92 CMV Resistance CMVR 4 2 (2 x 6mls) 21 days £36.00 92 CMV Resistance	Chromosome Analysis (Stem Cells)		Culture/Fixed cells	Contact lab	£380.00	106
Citrate (Urine) UCIT CU (Frozen) 5 days £74.00 25 CK (MB Fraction) CKMB 3 4 hours £40.00 25 CK Isoenzymes CKIE 3 5 days £98.00 25 Clobazam CLOB 4 5 days £98.00 126 Clomipramine (Anafranil) CHLO 4 7 days £98.00 126 Clonazepam CLON 4 7 days £98.00 126 Clostridium Difficile Toxin by PCR CLOS RF* 2 days £87.00 36 Clostridium Difficile Toxin by PCR CLOS RF* 2 days £87.00 36 Clostridium Difficile Toxin by PCR CLOS RF* 2 days £87.00 36 Constrain Difficile Toxin by PCR CLOS RF* 2 days £87.00 36 CMV DNA by PCR (Semen) SCVM Semen 7 days £212.00 92 CMV DNA by PCR (Urine) CMVU RU 5 days £212.00 92 <td>Chronic Fatigue Syndrome Profile</td> <td>VIP1</td> <td>A or Chex+ 10 10</td> <td>5 days</td> <td>£332.00</td> <td>73, 79</td>	Chronic Fatigue Syndrome Profile	VIP1	A or Chex + 10 10	5 days	£332.00	73, 79
CK (MB Fraction) CKMB ③ 4 hours £40.00 25 CK Isoenzymes CKIE ③ 5 days £98.00 25 Clobazam CLOB ④ 5 days £98.00 126 Clomipramine (Anafranil) CHLO ④ 7 days £98.00 126 Clonazepam CLON ⑥ 7 days £88.00 126 Clostridium Difficile Toxin by PCR CLOS RF* 2 days £87.00 36 CMV DNA (by PCR) CMVP ⑥ 5 days £212.00 92 CMV DNA by PCR (Semen) SCVM Semen 7 days £212.00 92 CMV DNA by PCR (Urine) CMVU RU 5 days £212.00 92 CMV Resistance CMVR ⑥ ② 2 days £536.00 92 Coagulation Profile 1 CLPF ⑥*** 4 hours £67.00 2.3 35 Coagulation Profile 2 CLOT ⑥** 4 hours £88.00 32,35 <	Citrate (Blood)	CITR	В	5 days	£72.00	25
CK Isoenzymes CKIE ③ 5 days £98.00 25 Clobazam CLOB ♠ 5 days £98.00 126 Clomipramine (Anafranil) CHLO ♠ 7 days £98.00 126 Clonazepam CLON ♠ 7 days £88.00 126 Clostridium Difficile Toxin by PCR CLOS RF* 2 days £87.00 36 CMV DNA (by PCR) CMVP ♠ 5 days £212.00 92 CMV DNA by PCR (Semen) SCVM Semen 7 days £212.00 92 CMV DNA by PCR (Urine) CMVU RU 5 days £212.00 92 CMV PREsistance CMVU RU 5 days £2536.00 92 Coagulation Profile 1 CLPF № ³ 4 hours £88.00 32, 35 Coagulation Profile 2 CLOT № ³ 4 hours £88.00 32, 35 Cobalt (Blood) COB № 3 5 days £67.00 25 Cobalt (Serum)	Citrate (Urine)	UCIT	CU (Frozen)	5 days	£74.00	25
Clobazam CLOB ♠ 5 days £98.00 126 Clomipramine (Anafranil) CHLO ♠ 7 days £98.00 126 Clonazepam CLON ♠ 7 days £88.00 126 Clostridium Difficile Toxin by PCR CLOS RF* 2 days £87.00 36 CMV DNA (by PCR) CMVP ♠ 5 days £212.00 92 CMV DNA by PCR (Semen) SCVM Semen 7 days £212.00 92 CMV DNA by PCR (Urine) CMVU RU 5 days £212.00 92 CMV Resistance CMVU RU 5 days £2536.00 92 CMV Resistance CMVR ♠ (2 × 6mls) 21 days £536.00 92 CMV Resistance CMVR ♠ (2 × 6mls) 21 days £536.00 92 CMV Resistance CMVR ♠ (2 × 6mls) 21 days £536.00 92 CMV Resistance CMVR ♠ (2 × 6mls) 21 days	CK (MB Fraction)	CKMB	В	4 hours	£40.00	25
Clomipramine (Anafranil) CHLO ♠ 7 days £98.00 126 Clonazepam CLON ♠ 7 days £88.00 126 Clostridium Difficile Toxin by PCR CLOS RF* 2 days £87.00 36 CMV DNA (by PCR) CMVP ♠ 5 days £212.00 92 CMV DNA by PCR (Semen) SCVM Semen 7 days £212.00 92 CMV DNA by PCR (Urine) CMVU RU 5 days £212.00 92 CMV Resistance CMVR ♠ (2 x 6mls) 21 days £536.00 92 Coagulation Profile 1 CLPF ♠ (3 x 6mls) 21 days £536.00 92 Cobalt (Blood) COB ♠ (3 x 6mls) 2 days £67.00 2.5 2.5 Cobalt (Blood) COB ♠ (3 x 6mls) 2 days £67.00 2.5 151 Cobalt (Urine) COBA RU³0 5 days £67.00 2.5 151 Cobalt (Urine) COBA RU³0 5 days </td <td>CK Isoenzymes</td> <td>CKIE</td> <td>В</td> <td>5 days</td> <td>£98.00</td> <td>25</td>	CK Isoenzymes	CKIE	В	5 days	£98.00	25
Clonazepam CLON ♠ 7 days £88.00 126 Clostridium Difficile Toxin by PCR CLOS RF* 2 days £87.00 36 CMV DNA (by PCR) CMVP ♠ 5 days £212.00 92 CMV DNA by PCR (Semen) SCVM Semen 7 days £212.00 92 CMV Resistance CMVU RU 5 days £212.00 92 Coagulation Profile 1 CLPF ♠¹8 4 hours £67.00 32,35 Coagulation Profile 2 CLOT ♠¹8 4 hours £67.00 32,35 Cobalt (Blood) COB ♠³ 5 days £67.00 25 Cobalt (Serum) COBB ♠³ 5 days £67.00 25,151 Cobalt (Urine) COBA RU³ 1 day £25.00 149 Cocaliac (Urine) Screen UCOC RU 1 days £67.00 25,152 Cocaliac (Urine) Screen UCOC RU 1 days £25.00 149 Cocalia	Clobazam	CLOB	A	5 days	£98.00	126
Clostridium Difficile Toxin by PCR CLOS RF* 2 days £87.00 36 CMV DNA (by PCR) CMVP 3 5 days £212.00 92 CMV DNA by PCR (Semen) SCVM Semen 7 days £212.00 92 CMV DNA by PCR (Urine) CMVU RU 5 days £212.00 92 CMV Resistance CMVR 3 (2 x 6mls) 21 days £536.00 92 Coagulation Profile 1 CLPF (3) (3) (2 x 6mls) 21 days £536.00 92 Coagulation Profile 2 CLOT (3) (3) (2 x 6mls) 21 days £536.00 92 Coagulation Profile 2 CLOT (3) (3) (2 x 6mls) 21 days £536.00 92 Cobalt (Blood) COB (3) (3) (3) (3) (3) (3) (3) (3) (3) (3)	Clomipramine (Anafranil)	CHLO	A	7 days	£98.00	126
CMV DNA (by PCR) CMVP S days £212.00 92 CMV DNA by PCR (Semen) SCVM Semen 7 days £212.00 92 CMV DNA by PCR (Urine) CMVU RU 5 days £212.00 92 CMV Resistance CMVR A (2 x 6mls) 21 days £536.00 92 Coagulation Profile 1 CLPF Image: Coagulation of the co	Clonazepam	CLON	A	7 days	£88.00	126
CMV DNA by PCR (Semen) SCVM Semen 7 days £212.00 92 CMV DNA by PCR (Urine) CMVU RU 5 days £212.00 92 CMV Resistance CMVR A ② (2 x 6mls) 21 days £536.00 92 Coagulation Profile 1 CLPF G 18 4 hours £67.00 32, 35 Coagulation Profile 2 CLOT A © 18 4 hours £88.00 32, 35 Cobalt (Blood) COB A 5 days £67.00 25 Cobalt (Blood) COBB 3 5 days £67.00 25, 151 Cobalt (Serum) COBB 3 5 days £67.00 25, 151 Cobalt (Urine) COBA RU 30 5 days £67.00 25, 152 Cocaine (Urine) Screen UCOC RU 1 day £25.00 149 Cocailac/Gluten Profile 2 GSA 3 10 days £170.00 77, 106 Coeliac/Gluten Profile 2 GSA 3 2 days £137.00 74, 77 <tr< td=""><td>Clostridium Difficile Toxin by PCR</td><td>CLOS</td><td>RF*</td><td>2 days</td><td>£87.00</td><td>36</td></tr<>	Clostridium Difficile Toxin by PCR	CLOS	RF*	2 days	£87.00	36
CMV DNA by PCR (Urine) CMVU RU 5 days £212.00 92 CMV Resistance CMVR A ② (2 x 6mls) 21 days £536.00 92 Coagulation Profile 1 CLPF C 18 4 hours £67.00 32,35 Coagulation Profile 2 CLOT A © 18 4 hours £88.00 32,35 Cobalt (Blood) COB A 5 days £67.00 25 Cobalt (Serum) COBB G 5 days £67.00 25,151 Cobalt (Urine) COBA RU³0 5 days £67.00 25,152 Cocaine (Urine) Screen UCOC RU 1 day £25.00 149 Cocaine (Urine) Screen UCOC RU 1 day £25.00 149 Cocaine (Urine) Screen UCOC RU 1 day £25.00 149 Cocaine (Urine) Screen UCOC RU 1 day £25.00 149 Cocidiaci Disease – HLA DQ2/DQ8 Genotype Q2Q8 4 ga 10 days £170.00 77, 106 </td <td>CMV DNA (by PCR)</td> <td>CMVP</td> <td>A</td> <td>5 days</td> <td>£212.00</td> <td>92</td>	CMV DNA (by PCR)	CMVP	A	5 days	£212.00	92
CMV Resistance CMVR ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠	CMV DNA by PCR (Semen)	SCVM	Semen	7 days	£212.00	92
Coagulation Profile 1 CLPF € 18 4 hours £67.00 32, 35 Coagulation Profile 2 CLOT ♠ € 18 4 hours £88.00 32, 35 Cobalt (Blood) COB ♠ 5 days £67.00 25 Cobalt (Serum) COBB ♠ 5 days £67.00 25, 151 Cobalt (Urine) COBA RU³0 5 days £67.00 25, 152 Cocaine (Urine) Screen UCOC RU 1 day £25.00 149 Cocidiac (Urine) Screen UCOC RU 1 day £25.00 149 Cocidiac (Urine) Screen UCOC RU 1 day £25.00 149 Cocidiac (Urine) Screen UCOC RU 1 day £25.00 149 Cocidiac (Urine) Screen UCOC RU 1 day £25.00 149 Cocidiac (Urine) Screen UCOC RU 1 day £25.00 149 Cocidiac Disease – HLA DQ2/DQ8 Genotype Q208 ♠3 10 days £290.00 74,77 Co	CMV DNA by PCR (Urine)	CMVU	RU	5 days	£212.00	92
Coagulation Profile 2 CLOT ♠ € 18 4 hours £88.00 32, 35 Cobalt (Blood) COB ♠ 5 days £67.00 25 Cobalt (Serum) COBB ♠ 5 days £67.00 25, 151 Cobalt (Urine) COBA RU³0 5 days £67.00 25, 152 Cocaine (Urine) Screen UCOC RU 1 day £25.00 149 Cocidioidomycosis Antibodies COCC ♠ 2 weeks £132.00 92 Coeliac Disease – HLA DQ2/DQ8 Genotype Q2Q8 ♠ 9 10 days £170.00 77, 106 Coeliac/Gluten Profile 2 GSA2 ♠ 9 10 days £290.00 74, 77 Coeliac/Gluten Sensitivity Profile GSA ♠ 2 days £137.00 74, 77 Coenzyme Q10 CQ10 ♠ 2 days £132.00 25 Collagen (Type I, II, IV) Antibodies COAB ♠ 10 days £86.00 25 Collagen Type 1 Cross-Linked N-TX NTX 2nd EMU 2 weeks £100.00 74 Colloid Antigen-2 Antibodie	CMV Resistance	CMVR	(2 x 6mls)	21 days	£536.00	92
Cobalt (Blood) COB ♠ 5 days £67.00 25 Cobalt (Serum) COBB ♠ 5 days £67.00 25, 151 Cobalt (Urine) COBA RU³0 5 days £67.00 25, 152 Cocaine (Urine) Screen UCOC RU 1 day £25.00 149 Cocidioidomycosis Antibodies COCC ♠ 2 weeks £132.00 92 Coeliac Disease – HLA DQ2/DQ8 Genotype Q2Q8 ♠³ 10 days £170.00 77, 106 Coeliac/Gluten Profile 2 GSA2 ♠³ 10 days £290.00 74, 77 Coeliac/Gluten Sensitivity Profile GSA ♠³ 2 days £137.00 74, 77 Coenzyme Q10 CQ10 ♠³ 2 weeks £132.00 25 Collagen (Type I, II, IV) Antibodies CAGG J¹ 5 days £53.00 25 Collagen Type 1 Cross-Linked NTX 2nd EMU 2 weeks £100.00 74 Colloid Antigen-2 Antibodies CA2A ♠³ 2 weeks	Coagulation Profile 1	CLPF	© 18	4 hours	£67.00	32, 35
Cobalt (Serum) COBB ⑤ 5 days £67.00 25, 151 Cobalt (Urine) COBA RU³0 5 days £67.00 25, 152 Cocaine (Urine) Screen UCOC RU 1 day £25.00 149 Cocidioidomycosis Antibodies COCC ⑥ 2 weeks £132.00 92 Coeliac Disease – HLA DQ2/DQ8 Genotype Q2Q8 ♠³ 10 days £170.00 77, 106 Coeliac/Gluten Profile 2 GSA2 ♠³ 10 days £290.00 74, 77 Coeliac/Gluten Sensitivity Profile GSA ⑥ 2 days £137.00 74, 77 Coenzyme Q10 CQ10 ⑥ 2 weeks £132.00 25 Collagen (Type I, II, IV) Antibodies COAB ⑥ 10 days £53.00 25 Collagen Type 1 Cross-Linked N-TX NTX 2nd EMU 2 weeks £100.00 74 Collogen Type 1 Cross-Linked N-TX NTX 2nd EMU 2 weeks £79.00 25 Collod Antigen-2 Antibodies CA2A ⑥	Coagulation Profile 2	CLOT	A C 18	4 hours	£88.00	32, 35
Cobalt (Urine) COBA RU³0 5 days £67.00 25, 152 Cocaine (Urine) Screen UCOC RU 1 day £25.00 149 Coccidioidomycosis Antibodies COCC 3 2 weeks £132.00 92 Coeliac Disease – HLA DQ2/DQ8 Genotype Q2Q8 4 9 10 days £170.00 77, 106 Coeliac/Gluten Profile 2 GSA2 4 3 10 days £290.00 74, 77 Coeliac/Gluten Sensitivity Profile GSA 3 2 days £137.00 74, 77 Coenzyme Q10 CQ10 3 2 weeks £132.00 25 Cold Agglutinin CAGG J¹ 5 days £53.00 25 Collagen (Type I, II, IV) Antibodies COAB 3 10 days £86.00 25 Collagen Type 1 Cross-Linked N-Talopeptide – NTX NTX 2nd EMU 2 weeks £100.00 74 Colloid Antigen-2 Antibodies CA2A 3 2 weeks £100.00 74 Colloid Antigen-2 Antibodies	Cobalt (Blood)	COB	A	5 days	£67.00	25
Cocaine (Urine) Screen UCOC RU 1 day £25.00 149 Coccidioidomycosis Antibodies COCC ② 2 weeks £132.00 92 Coeliac Disease – HLA DQ2/DQ8 Genotype Q2Q8 ♠³ 10 days £170.00 77, 106 Coeliac/Gluten Profile 2 GSA2 ♠³ 10 days £290.00 74, 77 Coeliac/Gluten Sensitivity Profile GSA ⑥ 2 days £137.00 74, 77 Coenzyme Q10 CQ10 ⑥ 2 weeks £132.00 25 Cold Agglutinin CAGG J¹ 5 days £53.00 25 Collagen (Type I, II, IV) Antibodies COAB ⑥ 10 days £86.00 25 Collagen Type 1 Cross-Linked N-Telopeptide – NTX NTX 2nd EMU 2 weeks £79.00 25 Colloid Antigen-2 Antibodies CA2A ⑥ 2 weeks £100.00 74 Colorectal Cancer NGS Panel – full sequencing across 18 genes + deletions/duplications GENE ♠ ♠ ♠ ♠ ♠ ♠ ♠<	Cobalt (Serum)	COBB	В	5 days	£67.00	25, 151
Coccidioidomycosis Antibodies COCC ③ 2 weeks £132.00 92 Coeliac Disease – HLA DQ2/DQ8 Genotype Q2Q8 ♠ 9 10 days £170.00 77, 106 Coeliac/Gluten Profile 2 GSA2 ♠ ⑤ 10 days £290.00 74, 77 Coeliac/Gluten Sensitivity Profile GSA ⑥ 2 days £137.00 74, 77 Coenzyme Q10 CQ10 ⑥ 2 weeks £132.00 25 Cold Agglutinin CAGG J¹ 5 days £53.00 25 Collagen (Type I, II, IV) Antibodies COAB ⑥ 10 days £86.00 25 Collagen Type 1 Cross-Linked N-Telopeptide – NTX NTX 2nd EMU 2 weeks £79.00 25 Colloid Antigen-2 Antibodies CA2A ⑥ 2 weeks £100.00 74 Colorectal Cancer NGS Panel – full sequencing across 18 genes + deletions/duplications GENE ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠ ♠	Cobalt (Urine)	COBA	RU ³⁰	5 days	£67.00	25, 152
Coeliac Disease – HLA DQ2/DQ8 Genotype Q2Q8 ♠ 9 10 days £170.00 77, 106 Coeliac/Gluten Profile 2 GSA2 ♠ 9 10 days £290.00 74, 77 Coeliac/Gluten Sensitivity Profile GSA ♠ 2 days £137.00 74, 77 Coenzyme Q10 CQ10 ♠ 2 weeks £132.00 25 Cold Agglutinin CAGG J¹ 5 days £53.00 25 Collagen (Type I, II, IV) Antibodies COAB ♠ 10 days £86.00 25 Collagen Type 1 Cross-Linked N-Telopeptide – NTX NTX 2nd EMU 2 weeks £79.00 25 Colloid Antigen-2 Antibodies CA2A ♠ 2 weeks £100.00 74 Colloid Antigen-2 Antibodies CA2A ♠ 2 weeks £100.00 74 Colorectal Cancer NGS Panel – full sequencing across 18 genes + deletions/duplications GENE ♠ 2 weeks £900.00 106 Comparative Genomic Hybridisation (Array CGH) CGH CVS/AF/♠ ⊕ 3 10 days £650.00 106 Complement C1q C1Q <td>Cocaine (Urine) Screen</td> <td>UCOC</td> <td>RU</td> <td>1 day</td> <td>£25.00</td> <td>149</td>	Cocaine (Urine) Screen	UCOC	RU	1 day	£25.00	149
Coeliac/Gluten Profile 2 GSA2 ♠ ③ 10 days £290.00 74,77 Coeliac/Gluten Sensitivity Profile GSA ⑤ 2 days £137.00 74,77 Coenzyme Q10 CQ10 ⑥ 2 weeks £132.00 25 Cold Agglutinin CAGG J¹ 5 days £53.00 25 Collagen (Type I, II, IV) Antibodies COAB ⑥ 10 days £86.00 25 Collagen Type 1 Cross-Linked N-Telopeptide – NTX NTX 2nd EMU 2 weeks £79.00 25 Colloid Antigen-2 Antibodies CA2A ⑥ 2 weeks £100.00 74 Colorectal Cancer NGS Panel – full sequencing across 18 genes + deletions/duplications GENE ♠ ♠ ③ ④ ♠ ③ 10 days £650.00 106 Comparative Genomic Hybridisation (Array CGH) CGH CVS/AF/♠ ④ 10 days £650.00 106 Complement C1q C1Q 5 days £61.00 25	Coccidioidomycosis Antibodies	COCC	В	2 weeks	£132.00	92
Coeliac/Gluten Sensitivity Profile GSA ③ 2 days £137.00 74,77 Coenzyme Q10 CQ10 ⑤ 2 weeks £132.00 25 Cold Agglutinin CAGG J¹ 5 days £53.00 25 Collagen (Type I, II, IV) Antibodies COAB ⑥ 10 days £86.00 25 Collagen Type 1 Cross-Linked N-Telopeptide – NTX NTX 2nd EMU 2 weeks £79.00 25 Colloid Antigen-2 Antibodies CA2A ⑥ 2 weeks £100.00 74 Colorectal Cancer NGS Panel – full sequencing across 18 genes + deletions/duplications GENE ♠ № № £900.00 106 Comparative Genomic Hybridisation (Array CGH) CGH CVS/AF/♠ ♣ 10 days £650.00 106 Complement C1q C1Q ⑤ 5 days £61.00 25	Coeliac Disease – HLA DQ2/DQ8 Genotype	Q2Q8	A 9	10 days	£170.00	77, 106
Coenzyme Q10 CQ10 € 2 weeks £132.00 25 Cold Agglutinin CAGG J¹ 5 days £53.00 25 Collagen (Type I, II, IV) Antibodies COAB € 10 days £86.00 25 Collagen Type 1 Cross-Linked N-Telopeptide – NTX NTX 2nd EMU 2 weeks £79.00 25 Colloid Antigen-2 Antibodies CA2A ⑤ 2 weeks £100.00 74 Colorectal Cancer NGS Panel – full sequencing across 18 genes + deletions/duplications GENE ♠ ♠ ♣ £900.00 106 Comparative Genomic Hybridisation (Array CGH) CGH CVS/AF/♠ ♣ 10 days £650.00 106 Complement C1q C1Q ⑤ 5 days £61.00 25	Coeliac/Gluten Profile 2	GSA2	A B	10 days	£290.00	74, 77
Colid Agglutinin CAGG J¹ 5 days £53.00 25 Collagen (Type I, II, IV) Antibodies COAB 3 10 days £86.00 25 Collagen Type 1 Cross-Linked N-TX NTX 2nd EMU 2 weeks £79.00 25 Colloid Antigen-2 Antibodies CA2A 3 2 weeks £100.00 74 Colorectal Cancer NGS Panel – full sequencing across 18 genes + deletions/duplications GENE A 9.11 4 weeks £900.00 106 Comparative Genomic Hybridisation (Array CGH) CGH CVS/AF/A 19 10 days £650.00 106 Complement C1q C1Q 5 days £61.00 25	Coeliac/Gluten Sensitivity Profile	GSA	В	2 days	£137.00	74, 77
Collagen (Type I, II, IV) Antibodies COAB COBB COAB COAB COBB COAB COBB COAB COBB COBB	Coenzyme Q10	CQ10	В	2 weeks	£132.00	25
Collagen Type 1 Cross-Linked N-Telopeptide – NTX NTX 2nd EMU 2 weeks £79.00 25 Colloid Antigen-2 Antibodies CA2A Colorectal Cancer NGS Panel – full sequencing across 18 genes + deletions/duplications Comparative Genomic Hybridisation (Array CGH) COMPlement C1q C1Q C1D Colloid Antigen-2 Antibodies CA2A C2 weeks £100.00 74 4 weeks £900.00 106 CVS/AF/A 🕒 10 days £650.00 106 Complement C1q C1Q C1D C3 C3 C3 C4 CVS/AF/A 🕞 CVS/AF/A C5 CVS/A	Cold Agglutinin	CAGG	J ¹	5 days	£53.00	25
N-Telopeptide – NTX Colloid Antigen-2 Antibodies CA2A COlorectal Cancer NGS Panel – full sequencing across 18 genes + deletions/duplications CGH COMparative Genomic Hybridisation (Array CGH) Complement C1q C1Q C1Q Condermit Sequence Sequ	Collagen (Type I, II, IV) Antibodies	COAB	В	10 days	£86.00	25
Colorectal Cancer NGS Panel – full sequencing across 18 genes + deletions/duplications GENE A 9.11 4 weeks £900.00 106 Comparative Genomic Hybridisation (Array CGH) CGH CVS/AF/A 19 10 days £650.00 106 Complement C1q C1Q 5 days £61.00 25	0 71	NTX	2nd EMU	2 weeks	£79.00	25
Comparative Genomic Hybridisation (Array CGH) CGH CVS/AF/A (3) 10 days £650.00 106 Complement C1q C1Q (3) 5 days £61.00 25	Colloid Antigen-2 Antibodies	CA2A	В	2 weeks	£100.00	74
(Array CGH) CGH CVS/AF/CH 10 days £650.00 106 Complement C1q C1Q S days £61.00 25		GENE	A A 9,11	4 weeks	£900.00	106
		CGH	CVS/AF/A (1)9	10 days	£650.00	106
Complement C2 C2 10 days £140.00 25	Complement C1q	C1Q	B	5 days	£61.00	25
	Complement C2	C2	В	10 days	£140.00	25

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Complement C5	C5A	B	2 weeks	£140.00	25
Complement C6	C6	(Frozen)*	5 weeks	£64.00	25
Complement C7	C7	(Frozen)*	5 weeks	£64.00	25
Complement C8	C8	(Frozen)*	5 weeks	£65.00	25
Complement C9	C9	(Frozen)*	5 weeks	£64.00	25
Complement Factor H	FACH	В	3 weeks	£136.00	25
Complex PSA (Prostate Specific Ag)	CPSA	B	3 days	£64.00	95
Congenital Absence of Vas Deferens – karyotype + cystic fibrosis screen + polyT(5T) + Y deletions	GRP	⊘ ⊕ ⁹	10-15 days	£740.00	106
Coombs (Direct Antiglobulin Test)	COOM	A	2 days	£27.00	34
Copper (Serum)	COPP	В	5 days	£50.00 25	5, 140, 151
Copper (Urine)	URCU	CU	5 days	£50.00	25, 152
Corona Virus PCR	CORV	PCR, BAL, SC, NPA	1 week	£106.00	92
Cortisol	CORT	В	4 hours	£46.00	45
Cortisol (Urine)	UCOR	CU	5 days	£63.00	45
Cortisol Binding Globulin	CBG	(Frozen)	1 month	£103.00	25
Cotinine (Saliva)	SCOT	Saliva Kit ¹	2 days	£49.00	152
Cotinine (Serum)	COT	B	2 days	£77.00	74
Cotinine (Urine)	COTT	RU	2 days	£58.00	74
Cow's Milk Components	ZZ7	В	2 days	£164.00	137
Coxsackie Antibodies (IgM)	COXM	B	10 days	£102.00	92
Creatine Kinase (CK, CPK)	CKNA	В	4 hours	£28.00	25
Creatinine	CREA	В	4 hours	£24.00	25
Creatinine (Urine)	UCR	CU	4 hours	£33.00	25
Creatinine Clearance	CRCL	₃ cu	4 hours	£44.00	25
Cri du Chat Syndrome - BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/(A) (1) 9	5-15 days	£580.00	107
Cri du Chat Syndrome – BOBs only	PB0B	CVS/AF/A9	5 days	£205.00	107
Crosslaps (Serum DPD)	SDPD	(Freeze within 24 hours)	4 days	£86.00	25
Cryoglobulins	CRY0	J 6	10 days	£48.00	74
Cryptococcal Antigen	CRYC	Serum or CSF	1 day	£76.00	36
Cryptosporidium	CRP0	RF	2 days	£41.00	36
Cryptosporidium Antigen Detection	CRPA	RF	1 day	£44.00	81
CSF for Microscopy and Culture	CSF	CSF	1-3 days	£67.00	36
CSF Screen by PCR	VPCR	CSF	2 days	£103.00	92, 94
CT/GC/Trichomonas/Mgen (Urine)	CGTM	FCRU	2 days	£97.00	71
CT/GC/Trichomonas/Mgen (Swab)	SGTM	PCR Swab	2 days	£97.00	71
Culture (Any site)	CULT		up to 5 days	£50.00	36
CVS PCR for common aneuploidies (2 days) + culture (10-15 days)	CVPC	CVS ⁹	2-15 days	£485.00	107
CVSBOBs – rapid BOBs aneuploidy diagnosis for all chromosomes (3-5 days) + culture (10-15 days)	СВК	CVS ⁹	5-15 days	£520.00	107

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
CVSBOBs only – rapid aneuploidy diagnosis for all chromosomes + common microdeletion syndromes	СВОВ	CVS ⁹	5 days	£205.00	107
Cyclic Amp (Urine)	CAMP	CU (Frozen)	5 days	£97.00	25
Cyclosporin (Monoclonal)	CYCL	A	1 day	£109.00	25
Cyfra 21-1	CY21	В	4 days	£161.00	95
CYP450 2D6 Genotyping	TGEN	A 9	10 days	£370.00	107
Cystatin C	CYCC	В	5 days	£84.00	25
Cystic Fibrosis – 139 common mutations	CFS	A 9	5 days	£260.00	107
Cystic Fibrosis Poly T (5T, 7T, 9T)	PLYT	A 9	5 days	£175.00	107
Cysticercosis (Taenia Solium) Serology	CYST	В	5 days	£80.00	92
Cystine – Quantitative (Beta-CTX)	QCYS	PU	5 days	£105.00	25
Cytomegalovirus (CMV-DNA) Amnio	CMVD	AF	5 days	£212.00	92
Cytomegalovirus (IgG/IgM) Antibodies	CMV	В	4 hours	£68.00	92
Cytomegalovirus (PCR) Urine	CMVU	RU	5 days	£212.00	92
Cytomegalovirus Avidity	CMAV	В	10 days	£105.00	92
Cytomegalovirus DNA (PCR)	CMVP	A	5 days	£212.00	92
Cytomegalovirus IgM	CMVM	В	4 hours	£68.00	92
D-Dimers (Fibrinogen Degradation Products)	DDIT	C 4	4 hours	£58.00	32
Dengue Fever PCR	DPCR	(A) or (B) 9,14	2 weeks	£231.00	92
Dengue Virus Serology	DENG	B 9,14	5 days	£100.00	81
Deoxypyridinoline (DPD) – Serum	SDPD	(Freeze within 24 hours)	4 days	£86.00	25
Deoxypyridinoline (DPD) – Urine	DPD	EMU	4 days	£86.00	25
DHEA	DHEX	В	7-10 days	£115.00	45
DHEA – Urine (Dehydroepiandrosterone)	UDHE	CU	3 weeks	£83.00	45
DHEA Sulphate	DHEA	B	4 hours	£67.00	45
Diabetic Profile 1	DIAB	A G	8 hours	£51.00	25, 31
Diabetic Profile 2	DIA2	(A) (G) RU	2 days	£100.00	25, 31
Diamine Oxidase Activity	DIAM	B	2 weeks	£79.00	74
Diazepam (Valium)	DIAZ	A	7 days	£88.00	126
DiGeorge Syndrome (22q11 & 10p14 deletion) - BOBs (5 days) + karyotype (15 days)	DGB, Kary	CVS/AF/(A) (1) 9	5-15 days	£575.00	107
DiGeorge Syndrome (22q11 & 10p14) – BOBs only	DGB	CVS/AF/A9	5 days	£205.00	107
Digoxin	DIGO	B	4 hours	£72.00	126
Dihydrotestosterone	DHT	88	7 days	£109.00	45
Diphtheria Antibodies	DIPH	B	5 days	£70.00	92
DL1-12 Screening Profiles					20-21
DNA (Double Stranded) Antibodies	DNAA	B	2 days	£52.00	74
DNA (Single Stranded) Antibodies	DNAS	B	5 days	£59.00	74
DNA Extraction & Storage - 3 years (longer upon request)	XDNA	A 9	10 days	£145.00	107
DNA Identity Profile – 15 STR markers	DNAF	A 9	10 days	£315.00	107
Dog Components	ZZ8	В	2 days	£110.00	137
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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Down Syndrome Risk Bloods only (Risk to be calculated by clinician)	HCGF/ PAPA	3	4 hours	£73.00	45
Down Syndrome Risk Profile (2nd trimester) Quad	DRP	3,DRP form 7,8	2 days	£180.00	45
Down Syndrome Risk Profile with risk calculation first trimester	DRP	DRP form + image of scan^{7,8}	2 days	£180.00	45
Doxepin Level (Sinequan)	DOXE	A	10 days	£98.00	152
Drugs of Abuse From Blood	DOAP	В	5 days	£131.00	149-150
Drugs of Abuse Profile – Random Urine Sample/No Chain of Custody	DOA	RU	2 days (5 days with GCMS confirmation)	£66.00	149-150
Drugs of Abuse Profile – Random Urine Sample/No Chain of Custody Plus Alcohol	DOA3	RU	2 days (5 days with GCMS confirmation)	£88.00	149-150
Drugs of Abuse Profile - With Chain of Custody	DOAL	RU/CoC Collection Containers 1,2	2 days (5 days with GCMS confirmation)	£105.00	149-150
Drugs of Abuse Profile – Without Chain of Custody	DOAN	RU ²	2 days (5 days with GCMS confirmation)	£85.00	149-150
Duchenne Muscular Dystrophy – deletions/duplications only	DMD	A 9	10 days	£470.00	107
DVT/Pre-travel Screen	DVT1	A A B ⁹	5 days	£232.00	32, 35, 81-82, 107, 124
Early CDT-Lung	CDTL	B	7 days	£164.00	95
Early Detection Screen PCR/NAAT	STDX	A 10mls or 2x4mls	3 days	£162.00	61, 71, 90-91
Early Detection Screen PCR/NAAT with Syphilis	STXX	B A 10mls or 2x4mls	3 days	£181.00	61, 71
Echinococcus (Hydatid) Antibodies	EFAT	B 9,14	5 days	£57.00	74, 81
Eczema Provoking Profile	ALEC	В	2 days	£186.00	130
Egg Components	ZZ9	В	2 days	£164.00	137
Ehlers-Danlos Syndrome/Aneurysm/ Connective Tissue Disorders NGS Panel – full sequencing across 46 genes + deletions/ duplications	GENE	AA 9	5 weeks	£2,000.00	107
Ehrlichiosis Antibodies	EHRL	B 9,14	10 days	£97.00	92
Elastase (Faecal)	ELAS	RF	5 days	£90.00	74
Elastase / Calprotectin Profile	CEP	RF	5 days	£129.00	74, 79
Electrolytes	ELEC	B	4 hours	£28.00	26
Electrolytes (Urine)	UELE	CU	4 hours	£34.00	25, 29
ELF/Enhanced Liver Fibrosis	ELF	<u> </u>	5-7 days	£165.00	26
Endometrial Biopsy Immune Profiling	23RF	J (Contact Referrals)	2 weeks	£546.00	48
Endomysial Antibodies (IgA)	AEAB	<u> </u>	2 days	£76.00	74
Enteric Organism Rapid Detection	EORD	RF	2 days	£181.00	81-82
Eosinophil Cationic Protein	ECP	<u> </u>	7 days	£106.00	26

Ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of collection. Turnaround times are quoted as working days.

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Epanutin (Phenytoin)	PHEN	В	4 hours	£52.00	126
Epstein-Barr Virus Antibodies IgG/IgM	EBVA	В	2 days	£128.00	92
Erectile Dysfunction Profile	IMP0	ABBG	3 days	£198.00	45, 50
Erythropoietin	ERY	В	4 days	£74.00	34, 126
ESR	ESR	A	4 hours	£26.00	32
Essential Fatty Acid Profile (Red Cell)	EFAR	A ⁴	10 days	£157.00	140
Ethosuximide	ETH0	A	7 days	£62.00	126
Extractable Nuclear Antibodies (nRNP, Sm, Ro, La, Jo1, Sc170) CENP-B	ENA	3	2 days	£61.00	74
Factor II Assay	FAC2	(Frozen) 9,18	5 days	£66.00	33
Factor II Prothrombin – G20210A mutation	FX2	A 9	5 days	£175.00	33, 108
Factor IX Assay	F1X	(Frozen) 9,18	5 days	£103.00	33
Factor IX Inhibiting Antibody	F9IA	() () 18	2 weeks	£103.00	33
Factor V Assay	FAC5	(Frozen) 9,18	5 days	£66.00	33
Factor V Leiden – G1691A mutation	FX5	A 9	5 days	£175.00	33, 108
Factor VII Assay	FAC7	(Frozen) 9,18	5 days	£103.00	33
Factor VIII Assay	FAC8	(Frozen) 9,18	5 days	£103.00	33
Factor VIII Inhibiting Antibody	F8IA	© © 18	2 weeks	£103.00	33
Factor X Assay	FX	(Frozen) 9,18	5 days	£133.00	33
Factor Xa (Heparin)	FXA	(Frozen)	5 days	£94.00	33
Factor XI Assay	FX1	(Frozen) 9,18	5 days	£103.00	33
Factor XII Assay	FX11	(Frozen) 9,18	5 days	£103.00	33
Factor XIII Assay	FA13	(Frozen) 9,18	5 days	£259.00	33
Faecal Calprotectin/Elastase Profile	CEP	RF	5 days	£129.00	79
Faecal Elastase	ELAS	RF	5 days	£90.00	74
Faecal Fat (1 Day Collection)	TFFA	LF ⁶	5 days	£130.00	26
Faecal Fat (3 day)	FFAT	LF ⁶	5 days	£105.00	26
Faecal Lactoferrin	FLAC	RF	5 days	£70.00	26
Faecal Occult Blood/F0B (immunochemical/FIT)	QFIT	QFIT	1 day	£48.00	36
Faecal Sugar Chromatography	FCR0	RF (Frozen)	3 weeks	£149.00	26
Faecal Urobilinogen	FUR0	RF	5 days	£46.00	26
Familial Hypercholesterolaemia – LDLR + APOB + PCSK9 + LDLRAP1 screening	GENE	A A ⁹	4 weeks	£525.00	108
Farmers Lung Precipitins	FARM	В	5 days	£92.00	74
Fasciola Hepatica Antibodies (Liver Fluke)	FASC	В	2 weeks	£117.00	74
FASTest Sexual Health Screening Tests					65
Fat Globules in Faeces	FGL0	RF	1 week	£76.00	26
Female Hormone Profile	FIP	В	4 hours	£121.00	45, 50
Ferritin	FERR	В	4 hours	£67.00	26
Fibrinogen	FIB	© 4,18	4 hours	£35.00	32
Fibrotest (Liver Fibrosis)	FIBT	В	2 weeks	£232.00	26
Filaria (Lymphatic and Non-Lymphatic) Antibodies	FIFA	B 9,14	10 days	£93.00	81

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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
First Trimester Antenatal Screen	HCGF/ Papa	В	4 hours	£73.00	45, 51
Fish Components	ZZ10	B	2 days	£83.00	137
FK506 (Tacrolimus/Prograf)	FK5	A 4	1-2 days	£113.00	126
Flecainide (Tambocor)	FLEC	A	5 days	£103.00	126
Fluid Culture	FLUD	SC	2-7 days	£50.00	36
Fluid Cytology	CATF	Fluid ⁴	3 days	£128.00	161
Fluid for Crystals	FLU2	SC	1 day	£50.00	36
Fluoride (Urine)	UFL	RU	5 days	£97.00	26
Fluoxetine (Prozac)	PR0Z	A 4	5 days	£103.00	126
Folate (Red Cell)	RBCF	A	2 days	£42.00	26, 140
Folate (Serum)	F0LA	B	1 day	£42.00	26
Fragile X Syndrome screen – FMR1 repeat analysis PCR (3 weeks) + Southern Blot (8 weeks) if required	GENE	AAA 9	3-8 weeks	£295.00	109
Free Cortisol (Urine)	UCOR	CU	5 days	£63.00	45
Free Fatty Acids	FFA	(Frozen) 1	10 days	£110.00	26
Free T3	FT3	В	4 hours	£44.00	45
Free T4	FT4	В	4 hours	£44.00	45
Fructosamine	FRUC	В	3 days	£38.00	26
Fructose – Plasma	FRU	© 7 (Frozen)	5 days	£78.00	26
FSH	FSH	В	4 hours	£44.00	45
Full Blood Count	FBC	A	4 hours	£39.00	32
Fungal ID + Sens	FUID	Fungal sample/STM	14 days	£110.00	36
G6PD	G6PD	A	3 days	£81.00	34
Gabapentin	GABA	B ⁴	5 days	£82.00	126
Galactomanan (Aspergillus Antigen)	SGAL	B	2 weeks	£232.00	36
Galactose-1-Phosphate Uridyltransferase	GAL1	₿ 5,6	2 weeks	£209.00	26
Galactosidase – Alpha	GALA	J	6 weeks	£254.00	26
Gall Stone Analysis	RSTA	STONE	10 days	£154.00	26
Gamma GT	GGT	B	4 hours	£22.00	26
Ganglionic Acetylcholine Receptor Antibodies	GACA	B	1 month	£96.00	74
Ganglioside GM1, GD1B, GQ1B Abs	GANG	B	5 days	£197.00	74
Gardnerella vaginalis by PCR	GVPC	FCRU/PCR/TPV	2 days	£75.00	61, 156
Gastric Parietal Autoantibodies	GASP	B	2 days	£43.00	74
Gastrin	GAST	(Frozen)	5 days	£98.00	26
Genetic Reproductive Profile (Male)	GRP	A (1) 9	10-15 days	£740.00	109, 112, 124
GENETICS: TDL GENETICS see pages 97-124					97-124
Gentamicin Assay	GENT	B ⁴	4 hours	£93.00	125
Giardia Serology	GIAR	В	5 days	£80.00	92
Gliadin Antibodies (IgG) (deamidated)	AGAB	В	2 days	£79.00	74
Globulin	GLOB	В	4 hours	£26.00	26
Glomerular Basement Membrane Abs	AGBM	В	2 days	£62.00	74

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Glucagon	GLUG	J ¹	10 days	£181.00	26
Glucose	RBG	G	4 hours	£23.00	26
Glucose Challenge Test/Mini-GTT	RBGM	G	1 day	£26.00	125
Glucose Tolerance Test (Short)	GTTS	2x © 2x RU	1 day	£82.00	125
Glucose Tolerance Test (Extended Plus)	GTTX	7x 😉 7x RU	1 day	£113.00	125
Glucose Tolerance Test (Extended)	GTTE	5x © 5x RU	1 day	£113.00	125
Glucose Tolerance with Growth Hormone	GTT +GHDF	3x 🕒 35 3x 🕞 3x RU	1 day	£216.00	125
Glucose Tolerance with Insulin	GTTI	3x 🕃 3x 🕞 3x RU	1 day	£324.00	125
Glucose Tolerance Test/OGTT	GTT	3x 🕒 3xRU	1 day	£129.00	125
Glutamic Acid Decarboxylase Antibodies (GAD 65)	GAD	В	5 days	£130.00	74
Glutathione (Red Cell)	GLUR	1 5	5 days	£86.00	140
Glutathione Peroxidase	GLPX	0	5 days	£85.00	140
Gluten Allergy Profile	GLUT	ABB	10 days	£300.00	74, 77, 130
Gluten Sensitivity Evaluation	GSA	В	2 days	£137.00	74, 77
Gluten/Coeliac Profile 2	GSA2	A B	10 days	£290.00	74, 77
Glycan Determinants	ZZ27	В	2 days	£56.00	137
Gonorrhoea (Culture)	GONN	CS ^{‡‡‡}	2-3 days	£50.00	36, 61
Gonorrhoea (PCR swab)	SGON	PCR	2 days	£64.00	61
Gonorrhoea (Thin Prep)	TGON	TPV	2 days	£75.00	61, 156
Gonorrhoea (Urine)	CGON	FCRU	2 days	£64.00	61
Granulocyte Immunology	GRIM	AA	2 weeks	£364.00	74
Group B Strep	GBS	2x STM	3-4 days	£38.00	36
Growth Hormone (Fasting)	GH	B 7,35	4 hours	£50.00	45
Gut Hormone Profile	GUTP	(Frozen within 15 minutes) 41	3 weeks	£298.00	45
H. pylori Antibodies (IgG)	HBPA	В	2 days	£62.00	74
H. pylori Antigen (Breath)	HBQT	J	5 days	£70.00	74
H. pylori Antigen (Stool)	HBAG	RF	3 days	£70.00	74
H. pylori Culture	HPCU	J	3 weeks	£178.00	36
Haematology Profile	PP3	A	4 hours	£46.00	20, 32, 35
Haemochromatosis – HFE common mutations C282Y + H63D	HMD	A 9	3 days	£190.00	26, 34, 109
Haemoglobin	НВ	A	4 hours	£26.00	32
Haemoglobin Electrophoresis	HBEL	A	4 days	£85.00	34
Haemophilus ducreyi by PCR	DUCR	PCR	7 days	£140.00	61
Haemophilus Influenzae B Antibodies	HINF	В	7 days	£93.00	74
Haemosiderin (Urine)	HSID	EMU	2 weeks	£90.00	26
Hair Mineral Analysis	НМА	2g (2 tbsp) of hair close to scalp	10 days	£127.00	140
Hams Test for PNH (CD59)	HAMS	J ^{34,5}	5 days	£346.00	34
Hantavirus Serology	HANV	B 9	10 days	£111.00	92
Haptoglobin	HAPT	B	5 days	£61.00	26
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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Harmony® Prenatal Test (Non-Invasive Prenatal Testing) – common aneuploidy screening from maternal blood	NIPT	J/Special tubes ¹	3-5 days	£295.00	109, 120-123
Harmony® Prenatal Test (Non-Invasive Prenatal Testing) – common aneuploidy screening from maternal blood plus 22q11.2 del	NIPQ	J/Special tubes ¹	3-5 days	£385.00	109, 120-123
Hazelnut Components	ZZ11	В	2 days	£138.00	137
HbA1c	GHB	A	6 hours	£44.00	26
HDL Cholesterol	HDL	В	4 hours	£35.00	26
HDL2 & HDL3 Fractions	HDLF	В	3 weeks	£97.00	26
HE4 + ROMA	HE4	В	1 day	£112.00	95
Hepatitis (Acute) Screen	AHSC	В	4 hours	£149.00	86
Hepatitis A (IgM)	HAVM	B	4 hours	£41.00	86
Hepatitis A Immunity (IgG/IgM)	HAIM	B	4 hours	£43.00	85 85-86
Hepatitis A Profile	HEPA	B	4 hours	£69.00	61, 86
Hepatitis A RNA by PCR	HAVR	A or B	3 weeks	£198.00	86
Hepatitis A, B & C Profile	ABC	В	4 hours	£245.00	86
Hepatitis B 'e' Antigen and Antibody	HEPE	B	4 hours	£100.00	86
Hepatitis B (PCR) Genotype	BGEN	A	7 days	£456.00	86
Hepatitis B Core Antibody – IgM	HBCM	B	4 hours	£46.00	86
Hepatitis B Core Antibody – Total	HBC	B	4 hours	£46.00	86
Hepatitis B DNA (Viral load)	DNAB	A	5 days	£232.00	86
Hepatitis B Immunity	HBIM	B	4 hours	£43.00	85-86
Hepatitis B Profile	HEPB	B	4 hours	£111.00	86
Hepatitis B Resistant Mutation	HBRM	A or B	7 days	£293.00	86
Hepatitis B Surface Antigen	AUAG	B	4 hours	£42.00	61, 86
Hepatitis C Abs Confirmation (RIBA)	RIBA	B	5 days	£152.00	86
Hepatitis C Antibodies	HEPC	B	4 hours	£85.00	61, 86
Hepatitis C Antigen (Early detection)	HCAG	B	4 hours	£52.00	61, 86
Hepatitis C Genotype	CGEN	A	5 days	£466.00	86
Hepatitis C Quantification (Viral Load)	QPCR	A or B	5 days	£202.00	86
Hepatitis Delta Antibody	HEPD	B	5 days	£98.00	86
Hepatitis Delta Antigen	HDAG	B	5 days	£126.00	86
Hepatitis Delta RNA	DRNA	(Frozen plasma)	5 days	£232.00	86
Hepatitis E (PCR)	EHEP	Δ	2 weeks	£186.00	86
Hepatitis E IgG/IgM	HBE	B	5 days	£116.00	86
Hepatitis G (PCR)	HEPG	(Frozen plasma)	2 weeks	£173.00	86
Herpes Simplex I/II Antibody Profile (IgG)	HERP	B	2 days	£64.00	92
Herpes Simplex I/II by PCR	HERD	FCRU/PCR/TPV	4 days	£75.00	92, 156
Herpes Simplex I/II by PCR (Swab)	HERS	PCR	5 days	£75.00	61, 92
Herpes Simplex I/II by PCR (Urine)	HERD	FCRU/PCR/TPV	4 days	£75.00	61
Herpes Simplex I/II IgM	HERM	B	2 days	£64.00	92
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HFE gene (Haemochromatosis)	TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Histamine (Urine) HITU	,	HMD	A 9	3 days	£191.00	34, 110
Histamine (Urine) HITU RU 5 days £111.00 74 Histamine Releasing Urticaria Test CURT	Hirsutism Profile	HIRP	B	4 hours	£150.00	45, 51
Histamine Releasing Urticaria Test CURT 6 10-14 days £138.00 74, 130	Histamine	HITT	(Frozen plasma)	5 days	£111.00	74
Histone Antibodies HISA	Histamine (Urine)	HITU	RU	5 days	£111.00	74
Histopathology Histopathology HiV 1 Az/p24Ag HiDUO A thours About Screens (Using 3 methodologies) HIVC A Whole blood A thours Screens (Using 3 methodologies) HIVC A thours Screens Screens (Using 3 methodologies) HIVC A thours Screens Screens	Histamine Releasing Urticaria Test	CURT	В	10-14 days	£138.00	74, 130
Histoplasmosis HISP	Histone Antibodies	HISA	B	5 days	£90.00	74
HIV 1 & 2/p24Ag HDUO	Histopathology					164-168
HIV1 Proviral DNA	Histoplasmosis	HISP	B	10 days	£122.00	74
HIV Confirmation of Positive Screens (Using 3 methodologies)	HIV 1 & 2/p24Ag	HDU0	B	4 hours	£46.00	61, 90
HIV Rapid RNA HIV-1 QUALITATIVE LHIV A 4 hours £149.00 61,72, 90-91	HIV 1 Proviral DNA	HIVP	A Whole blood	7 days	£350.00	90
HIV Rapid RNA HIV-1 QUALITATIVE HIV Rapid RNA HIV-1 QUANTITATIVE RHIV A hours £149.00 61,72,90-91 HIV Screening: HIV1& 2 Abs/p24 Ag (4th Gen) HDU0 3 4 hours £46.00 61,90 HIV-1 Genotypic Resistance (Integrase) HIV-1 Genotypic Resistance (RT & Protease) HIV-1 Genotypic Resistance (RT & Protease) HIV-1 Genotypic Resistance (RT & Protease) HIV-1 Tropism TRPM A ② (2 x6ml whole blood) A days £149.00 90 HIV-1 Tropism TRPM A ③ (2 x6ml whole blood) A days £149.00 90 HIV-1 Tropism TRPM A ③ (2 x6ml whole blood) A days £149.00 90 HIV-2 RNA by PCR HIV2 A ② (2 x6ml whole blood) A days £149.00 90 HIV-1 Tropism TRPM A ④ (2 x6ml whole blood) A days £149.00 90 HIV-2 RNA by PCR HIV2 A ② (2 x6ml whole blood) A days £181.00 61,71 With Syphilis STXX 10 10mls or 2 x4mls A days £181.00 61,71 HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure) HIV-1 RNA HIV-1 RNA A days £162.00 61,71 90-92 HIV-1 RNA HIV-1 RNA A days £162.00 A days £162.00 A days £162.00 A days £180.00 A days HIV-1 RNA HIV-1 RNA HIV-1 RNA A days HIV-1 RNA HIV-1 RNA A days HIV-1 RNA		HIVC	В	1 day	£112.00	90
HIV Rapid RNA HIV1-I QUANTITATIVE HIV1 Screening: HIV1& 2 Abs/p24 Ag (4th Gen) HDU0 3 4 hours £149.00 61, 90 HIV Therapeutic Drug Monitoring TDM J 21 days £225.00 90 HIV-I Genotypic Resistance (Integrase) HIVD ② ② (2x6ml whole blood) HIV-I Genotypic Resistance (RT & Protease) HIV1 ② ③ (2x6ml whole blood) HIV-I RNA Viral Load by PCR HIV1 ③ ② (2x6ml whole blood) HIV-I RNA Viral Load by PCR HIV1 MIV-1 Tropism TRPM ③ ② (2x6ml whole blood) HIV-2 RNA by PCR HIV2 ③ 21 days £288.00 90 HIV-1 RNA Viral Load by PCR/NAAT (10 days post exposure) HIV4PW/HCV (Early detection by PCR/NAAT (10 days post exposure) HLA B*57:01 HL57 □ 10 mls or 2x4mls □ 3 days £162.00 HLA B*57:01 HL57 □ 3 10 days £273.00 90 HLA DQ Alpha Antigens HLA DQ Alpha Antigens HLA DQ Beta Antigens HLA DQ Beta Antigens HLA Tissue Typing A HB/C/DRB1/3/4/5/DQB1 HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLA Tissue Typing A/B+B+C (Class I) HLB Q 3 10 days £180.00 HLB Q 4 10 day	HIV Rapid RNA HIV-1 QUALITATIVE	LHIV	A	4 hours	£149.00	
HIV Therapeutic Drug Monitoring TDM J 21 days £225.00 90 HIV-1 Genotypic Resistance (Integrase) INTE	HIV Rapid RNA HIV-1 QUANTITATIVE	RHIV	•	4 hours	£149.00	, ,
HIV-1 Genotypic Resistance (Integrase) INTE △ ② (2x6ml whole blood) 10 days £551.00 90 HIV-1 Genotypic Resistance (RT & Protease) HIVD △ ③ (2x6ml whole blood) 10 days £551.00 90 HIV-1 RNA Viral Load by PCR HIV1 △ ④ (2x6ml whole blood) 3 days £149.00 90 HIV-1 Tropism TRPM △ ④ (2x6ml whole blood) 28 days £845.00 90 HIV-2 RNA by PCR HIV2 △ ② (2x6ml whole blood) 28 days £845.00 90 HIV/HBV/HCV (Early detection by PCR/NAAT) with Syphilis STXX ③ 10mls or 2x4mls 3 days £181.00 61,71 HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure) STDX ④ 10mls or 2x4mls 3 days £162.00 61,71 HLA B27 HLAB ④ ③ 10 days £273.00 90 HLA DQ Alpha Antigens 10RF ④ △ 2 weeks £155.00 48 HLA DQ Beta Antigens 11RF △ △ 2 weeks £155.00 48 HLA Tissue Typing A/B/C/DRB1/3/4/5/DQB1 HLA ④ ⑤ <th< th=""><th>HIV Screening: HIV1& 2 Abs/p24 Ag (4th Gen)</th><th>HDU0</th><th>B</th><th>4 hours</th><th>£46.00</th><th>61, 90</th></th<>	HIV Screening: HIV1& 2 Abs/p24 Ag (4th Gen)	HDU0	B	4 hours	£46.00	61, 90
HIV-1 Genotypic Resistance (RT & Protease) HIVD	HIV Therapeutic Drug Monitoring	TDM	J	21 days	£225.00	90
HIV-1 RNA Viral Load by PCR HIV1	HIV-1 Genotypic Resistance (Integrase)	INTE	(2x6ml whole blood)	10 days	£551.00	90
HIV-1 Tropism TRPM	HIV-1 Genotypic Resistance (RT & Protease)	HIVD	,	10 days	£551.00	90
HIV-2 RNA by PCR HIV2 △ 21 days £288.00 90 HIV/HBV/HCV (Early detection by PCR/NAAT) with Syphilis STXX ☑ ♠ 10mls or 2x 4mls 3 days £181.00 61,71 HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure) STDX ♠ 10mls or 2x 4mls 3 days £162.00 61,71 HLA B*57:01 HL57 ♠³ 10 days £273.00 90 HLA B27 HLAB ♠³ 3 days £180.00 74,110 HLA DQ Alpha Antigens 10RF ♠ ♠ ♠ 2 weeks £155.00 48 HLA DB Antigens 11RF ♠ ♠ ♠ 2 weeks £155.00 48 HLA DR Antigens 9RF ♠ ♠ ♠ 2 weeks £191.00 48 HLA Tissue Typing A HLA ♠³ 10 days £640.00 110 HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLFC ♠³ 10 days £640.00 110 HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLF ♠³ 10 days £30.00 110 <	HIV-1 RNA Viral Load by PCR	HIV1	(2x6ml whole blood)	3 days	£149.00	90
HIV/HBV/HCV (Early detection by PCR/NAAT) with Syphilis HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure) HLS7 HLS9 HLAB *57:01 HLS7 HLAB	HIV-1 Tropism	TRPM		28 days	£845.00	90
with Syphilis \$1XX \$1000 or 2x 4mls 3 days £181.00 61, 71 HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure) STDX 10 mls or 2x 4mls 3 days £162.00 61, 71, 90-92 HLA B*57:01 HL57 A³ 10 days £273.00 90 HLA B27 HLAB A³ 3 days £180.00 74, 110 HLA DQ Alpha Antigens 10RF A A 2 weeks £155.00 48 HLA DQ Beta Antigens 11RF A A 2 weeks £191.00 48 HLA DR Antigens 9RF A A 2 weeks £191.00 48 HLA Tissue Typing A HLA A³ 10 days £190.00 110 HLA Tissue Typing A/B/C/DRB1/3/4/5/DQB1 HLFC A³ 10 days £490.00 110 HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLF A³ 10 days £300.00 110 HLA Tissue Typing A/B HLB A³ 10 days £490.00	HIV-2 RNA by PCR	HIV2	<u> </u>	21 days	£288.00	90
HLA B*57:01		STXX	(B) (A) 10mls or 2x4mls	3 days	£181.00	61, 71
HLA B27 HLAB	•	STDX	(A) 10mls or 2x4mls	3 days	£162.00	
HLA DQ Alpha Antigens 10RF	HLA B*57:01	HL57		10 days	£273.00	90
HLA DQ Beta Antigens 11RF △△△ 2 weeks £155.00 48 HLA DR Antigens 9RF △△△ 2 weeks £191.00 48 HLA Tissue Typing A HLA A B 10 days £640.00 110 HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLFC A B 10 days £640.00 110 HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLFC A B 10 days £490.00 110 HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLF A B 10 days £540.00 110 HLA Tissue Typing A/B HLBA A B 10 days £300.00 110 HLA Tissue Typing A/B HLBA A B 10 days £490.00 110 HLA Tissue Typing B HLBA B B B B B B B B B B B B	HLA B27	HLAB	A 9	3 days	£180.00	74, 110
HLA DR Antigens 9RF ♠ ♠ ♠ 2 weeks £191.00 48 HLA Tissue Typing A HLA ♠³ 10 days £190.00 110 HLA Tissue Typing A/B/C/DRB1/3/4/5/DQB1 HLFC ♠³ 10 days £640.00 110 HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLF ♠³ 10 days £300.00 110 HLA Tissue Typing A+B HLBA ♠³ 10 days £300.00 110 HLA Tissue Typing B HLB ♠³ 10 days £490.00 110 HLA Tissue Typing B*27 only HLAB ♠³ 10 days £190.00 110 HLA Tissue Typing B*51 (Behcet's Disease) B51 ♠³ 10 days £190.00 110 HLA Tissue Typing B*57:01 high resolution HL57 ♠³ 10 days £275.00 110	HLA DQ Alpha Antigens	10RF	AA	2 weeks	£155.00	48
HLA Tissue Typing A HLA A³ 10 days £190.00 110 HLA Tissue Typing A/B/C/DRB1/3/4/5/DQB1 (Class I & II) HLFC A³ 10 days £640.00 110 HLA Tissue Typing A/B/DRB1/3/4/5 HLAF A³ 10 days £490.00 110 HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLF A³ 10 days £540.00 110 HLA Tissue Typing A+B HLBA A³ 10 days £300.00 110 HLA Tissue Typing B HLB A³ 10 days £190.00 110 HLA Tissue Typing B*27 only HLAB A³ 3 days £180.00 72, 110 HLA Tissue Typing B*51 (Behcet's Disease) B51 A³ 10 days £190.00 110 HLA Tissue Typing B*57:01 high resolution HL57 A³ 10 days £275.00 110	HLA DQ Beta Antigens	11RF	&	2 weeks	£155.00	48
HLA Tissue Typing A/B/C/DRB1/3/4/5/DQB1 (Class I & II) HLA Tissue Typing A/B/DRB1/3/4/5 HLAF A³ 10 days £490.00 110 HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLF A³ 10 days £540.00 110 HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLF A³ 10 days £540.00 110 HLA Tissue Typing A+B HLBA A³ 10 days £300.00 110 HLA Tissue Typing B HLB A³ 10 days £490.00 110 HLA Tissue Typing B HLB A³ 10 days £190.00 110 HLA Tissue Typing B HLB A³ 3 days £180.00 72, 110 HLA Tissue Typing B*51 (Behcet's Disease) B51 A³ 10 days £190.00 110 HLA Tissue Typing B*57:01 high resolution HL57 A³ 10 days £275.00 110	HLA DR Antigens	9RF		2 weeks	£191.00	48
(Class I & II) HLAT issue Typing A/B/DRB1/3/4/5 HLAF A³ 10 days £490.00 110 HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLF A³ 10 days £540.00 110 HLA Tissue Typing A+B HLBA A³ 10 days £300.00 110 HLA Tissue Typing B+B+C (Class I) HABC A³ 10 days £490.00 110 HLA Tissue Typing B HLB A³ 10 days £190.00 110 HLA Tissue Typing B*27 only HLAB A³ 3 days £180.00 72, 110 HLA Tissue Typing B*51 (Behcet's Disease) B51 A³ 10 days £190.00 110 HLA Tissue Typing B*57:01 high resolution HL57 A³ 10 days £275.00 110	,, ,	HLA	A 9	10 days	£190.00	110
HLA Tissue Typing A/B/DRB1/3/4/5/DQB1 HLF A9 10 days £540.00 110 HLA Tissue Typing A+B HLBA A9 10 days £300.00 110 HLA Tissue Typing A+B+C (Class I) HABC A9 10 days £490.00 110 HLA Tissue Typing B HLB A9 10 days £190.00 110 HLA Tissue Typing B*27 only HLAB A9 3 days £180.00 72, 110 HLA Tissue Typing B*51 (Behcet's Disease) B51 A9 10 days £190.00 110 HLA Tissue Typing B*57:01 high resolution HL57 A9 10 days £275.00 110		HLFC	A 9	10 days	£640.00	110
HLA Tissue Typing A+B HLBA A³ 10 days £300.00 110 HLA Tissue Typing A+B+C (Class I) HABC A³ 10 days £490.00 110 HLA Tissue Typing B HLB A³ 10 days £190.00 110 HLA Tissue Typing B*27 only HLAB A³ 3 days £180.00 72, 110 HLA Tissue Typing B*51 (Behcet's Disease) B51 A³ 10 days £190.00 110 HLA Tissue Typing B*57:01 high resolution HL57 A³ 10 days £275.00 110	HLA Tissue Typing A/B/DRB1/3/4/5	HLAF	A 9	10 days	£490.00	110
HLA Tissue Typing A+B+C (Class I) HABC Δ° 10 days £490.00 110 HLA Tissue Typing B HLB Δ° 10 days £190.00 110 HLA Tissue Typing B*27 only HLAB Δ° 3 days £180.00 72, 110 HLA Tissue Typing B*51 (Behcet's Disease) B51 Δ° 10 days £190.00 110 HLA Tissue Typing B*57:01 high resolution HL57 Δ° 10 days £275.00 110	HLA Tissue Typing A/B/DRB1/3/4/5/DQB1	HLF	A 9	10 days	£540.00	110
HLA Tissue Typing B HLB A³ 10 days £190.00 110 HLA Tissue Typing B*27 only HLAB A³ 3 days £180.00 72, 110 HLA Tissue Typing B*51 (Behcet's Disease) B51 A³ 10 days £190.00 110 HLA Tissue Typing B*57:01 high resolution HL57 A³ 10 days £275.00 110	HLA Tissue Typing A+B	HLBA	A 9	10 days	£300.00	110
HLA Tissue Typing B*27 only HLAB A³ 3 days £180.00 72, 110 HLA Tissue Typing B*51 (Behcet's Disease) B51 A³ 10 days £190.00 110 HLA Tissue Typing B*57:01 high resolution HL57 A³ 10 days £275.00 110	HLA Tissue Typing A+B+C (Class I)	HABC		10 days	£490.00	110
HLA Tissue Typing B*51 (Behcet's Disease) B51 Δ° 10 days £190.00 110 HLA Tissue Typing B*57:01 high resolution HL57 Δ° 10 days £275.00 110	HLA Tissue Typing B	HLB	A 9	10 days	£190.00	110
HLA Tissue Typing B*57:01 high resolution HL57 🔊 10 days £275.00 110	HLA Tissue Typing B*27 only	HLAB		3 days	£180.00	72, 110
	HLA Tissue Typing B*51 (Behcet's Disease)	B51			£190.00	110
HLA Tissue Typing C HLC Q9 10 days £190.00 110						
	HLA Tissue Typing C	HLC	A 9	10 days	£190.00	110

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
HLA Tissue Typing Coeliac Disease – DQ2/DQ8	Q2Q8	A 9	10 days	£170.00	110
HLA Tissue Typing DRB1/3/4/5	DRB1	A 9	10 days	£190.00	110
HLA Tissue Typing DRB1/3/4/5/DQB1 (Class II)	HLDQ	A 9	10 days	£300.00	110
HLA Tissue Typing Narcolepsy – DQB1*06:02	GENE	A 9	4 weeks	£375.00	110
Homocysteine (Quantitative)	НОМО	B 17	1 day	£78.00	26
Homocysteine (Urine)	HCYS	CU	2 weeks	£110.00	26
Homovanillic Acid (HVA)	HVA	PU	5 days	£85.00	26
House Dust Mite Components	ZZ12	B	2 days	£110.00	137
HPV (mRNA HR-HPV)	HPV	TPV	2-3 days	£59.00	61, 158
HPV (Individual low & high risk DNA subtypes)	HP20	TPV/PCR	2-3 days	£93.00	61, 158
HPV (DNA and reflexed mRNA)	HPVT	TPV	3 days	£118.00	61, 158
HRT Profile 1	HRT	B	4 hours	£91.00	45, 51
HRT Profile 2	HRT2	BG	4 hours	£139.00	45, 51
HTLV 1& 2 Abs. (Human T Lymphotropic Virus Type I-II)	HTLV	3	8 hours	£53.00	90
HTLV by PCR	HTLP	A Whole blood	21 days	£288.00	90
Hughes Syndrome	LUPA	3 6 4,18	2 days	£94.00	33
Human Anti-Mouse Antibodies	HAMA	(Frozen)	6 weeks	£130.00	74
Human Herpes Virus – 6 by PCR	HHV6	A	5 days	£147.00	92
Human Herpes Virus – 8 (IgG)	HHV8	B	10 days	£83.00	92
Human Herpes Virus – 8 by PCR	HV8D	A	5 days	£166.00	92
Human Parvovirus B19 – DNA	PCRP	A	2 weeks	£173.00	92
HVS	HVS	STM ^{‡‡‡‡}	2-4 days	£57.00	36
Hyaluronic Acid	AHT	B	1 week	£59.00	26
Hydroxybutyrate Dehydrogenase	HBD	(Frozen)	1 week	£72.00	26
Hydroxyprolene	UHYD	CU	2 weeks	£80.00	26
Identity Profile (DNA) – 15 STR markers	DNAF	A 9,11	10 days	£315.00	111
IgE (Total)	IGE	B	1 day	£48.00	29, 74, 130
IGF-1 (Somatomedin)	SOMA	(Frozen) ⁴	1 day	£79.00	45
IGF-BP3	IGF3	(Frozen) ⁴	5 days	£97.00	46
IgG Subclasses	IGSC	B	4 days	£197.00	26
Imipramine	IMIP	A 4	4 days	£82.00	126
Immune Function Evaluation (Total)	TIE	A or Chex + 13 5,10	7 days	£300.00	32
Immune-Complexes	IMCP	B	5 days	£85.00	74
Immunoglobulin A	IGA	B	4 hours	£34.00	26
Immunoglobulin D	IGD	B	5 days	£60.00	27
Immunoglobulin E – Total	IGE	B	1 day	£48.00	27
Immunoglobulin G	IGG	3	4 hours	£34.00	27
Immunoglobulin M	IGM	B	4 hours	£34.00	27
Immunoglobulins (IgG, IgM, IgA)	IMM	B	4 hours	£70.00	27, 74
Impotence Profile	IMP0	ABB 6	3 days	£198.00	46, 50
Inhibin A	INIA	<u> </u>	1 month	£136.00	46
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	TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
	Inner Ear Antigen (Ottoblot)	IEA	В	3 weeks	£158.00	74
	INR	PTIM	C 18	4 hours	£24.00	32
	Insect/Worm/Ova/Cysts	FLEA	Send Specimen 9,14	5 days	£81.00	81
	Insulin	INSU	B	4 hours	£48.00	46
	Insulin Antibodies	INAB	B	5 days	£81.00	74
	Insulin Resistance (Fasting)	FIRI	B G	4 hours	£69.00	46
	Insulin-Like Growth Factor 2	IGF2	B 6	1 month	£261.00	27
	Interferon – Alpha	IFA	(frozen) ⁹	3 weeks	£208.00	75
	Interferon – Gamma	IFG	(frozen)	3 weeks	£208.00	75
	Interleukin 1 Beta	ILB	(frozen) 4,7	1-2 weeks	£184.00	75
	Interleukin 2	IL2	(frozen) 4,7	1-2 weeks	£184.00	75
	Interleukin 4	IL4A	(frozen) 4,7	1-2 weeks	£184.00	75
	Interleukin 6	IL6	(frozen) 4,7	1-2 weeks	£184.00	75
	Interleukin 8	IL8	(frozen) 4,7	1-2 weeks	£290.00	75
	Interleukin 10	IL10	(frozen) 4,7	1-2 weeks	£306.00	75
	Interleukin 28b Genotype	IL28	A	2 weeks	£355.00	75
	Intrinsic Factor Antibodies	IFAB	B	2 days	£87.00	75
	lodide – Urine	UIOD	RU	1 week	£112.00	27
	lodine – Serum	IODI	B	1 week	£94.00	27
	Ionised Calcium	ICPA	B	5 days	£43.00	27
	Iron (TIBC included)	FE	B	4 hours	£26.00	27
	Iron Overload Profile	IOP	A B ⁹	3 days	£245.00	27, 30, 111, 124
	Iron Status Profile	ISP	B	4 hours	£78.00	27, 30
	ISAC Panel	ISAC	B	3 days	£394.00	130-131
	Islet Cell Antibodies	ICAB	B	2 days	£57.00	75
	Isocyanates – Urine	ISOC	J^6	3 weeks	£148.00	152
	IUCD for Culture	IUCD	Send Device	11-12 days	£58.00	36
	JAK2 V617F genotyping assay	JAK2	A	2 weeks	£230.00	111
	JC Polyoma Virus by PCR	JCPV	A/B/CSF	5 days	£191.00	93
	Jewish/Pan-ethnic carrier screening	ASHJ	A 9	4 weeks	£600.00	104, 111, 119, 124
	Ketamine Screen	KETA	RU	7-10 days	£125.00	149
	KIR (Killer-like Immunoglobulin-like Receptors) Genotyping	17RF	AAA	2-3 weeks	£315.00	48
	Kiwi Components	ZZ32	В	2 days	£53.00	137
	Kryptopyrroles (Urine)	KRYP	RU ⁶	10 days	£76.00	140
	Lactate (Plasma)	LACT	G 16	1 day	£66.00	27
	Lactate Dehydrogenase (LDH)	LDH	В	4 hours	£28.00	27
	Lactate Pyurvate Ratio	LPR	J ¹	4-6 weeks	£117.00	27
V	Lactose Intolerance Gene	LACG	A	2 weeks	£130.00	111
	Lactose Tolerance Test	LTT	By appointment only	1 day	£124.00	125
	Lamotrigine	LAM0	B 4	5 days	£98.00	126

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Langer-Giedion Syndrome – BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/ (1) 9	5-15 days	£575.00	111
Langer-Giedion Syndrome – BOBs only	PB0B	CVS/AF/(A)9	5 days	£205.00	111
Latex Components	ZZ13	B	2 days	£245.00	137
LDH Isoenzymes	IS0L	В	5 days	£70.00	27
LDL7 Subfractions	LDL7	В	10 days	£210.00	27
Lead (Blood)	LEAD	A	5 days	£50.00	27, 151
Lead (Urine)	URPB	RU	5 days	£50.00	27, 152
Lead Profile (Hb, ZPP, Lead)	LEAZ	A 13	3-5 days	£64.00	151
Legionella Antibodies	LEG0	B	2 days	£67.00	75
Legionella Urine Antigen	LEGA	RU	1 day	£112.00	36, 75
Leishmania Antibodies	LEIS	B	5 days	£53.00	81
Leptin	LEPT	B 19	5 days	£132.00	27
Leptospirosis (Weil's Disease) Abs (IgM)	LEP	B	5 days	£100.00	75
Leucine Amino Peptidase	LAP	B	5 days	£159.00	27
Leucocyte Antibody Detection Panel FEMALE	8RF	B	1 week	£191.00	48
Leucocyte Antibody Detection Panel MALE	7RF	(1) (1) (3,4,6)	1 week	£0.00 (No charge)	48
Leukaemia Immunophenotyping	LYPT	A 4,5	5 days	£471.00	34
Leukotriene E4	LTE4	CU (Frozen)	3 weeks	£364.00	75
Levetiracetam (Keppra)	LEVE	B 4	3 days	£103.00	126
Lipase	LIPA	B	4 hours	£46.00	27
Lipid Profile	LIPP	B	4 hours	£45.00	27, 30
Lipid Transfer Proteins	ZZ23	В	2 days	£194.00	137
Lipocalins	ZZ28	B	2 days	£83.00	137
Lipoprotein (a)	LP0A	B	4 hours	£49.00	27
Lipoprotein Electrophoresis	LEL	В	5 days	£69.00	27
Listeria Antibody	LIST	B	1 week	£51.00	93
Lithium (take 12 hours after dose)	LITH	В	4 hours	£41.00	27, 126
Liver Fibrosis (Enhanced Liver Fibrosis ELF)	ELF	B	5-7 days	£165.00	25, 27
Liver Fibrosis Fibrotest	FIBT	B	2 weeks	£232.00	27
Liver Function Tests	LFT	В	4 hours	£45.00	27, 30
Liver Immunoblot	LIV1	B	5 days	£150.00	75
Liver Kidney Microsomal Antibodies	LKM	B	2 days	£43.00	75
Lorazepam	LORA	A 4	10 days	£57.00	126
Lp-PLA2 (PLAC) Test	PLA2	B	2 days	£100.00	27
LSD	LSD	RU	5 days	£97.00	149
Lupus Anticoagulant and Anticardiolipin Abs	LUPA	B C 4,18	2 days	£94.00	33, 75
Lupus Anticoagulant only	LUPC	C 18	2 days	£61.00	33
Lutein	LUTE	B 13	2 weeks	£53.00	140
Luteinising Hormone (LH)	LH	B	4 hours	£44.00	46
Lycopene	LYC0	В	2 weeks	£65.00	140
Lyme Disease (Borrelia Abs) IgG, IgM	BORR	B 9,14	2 days	£76.00	75, 81
Lyme Disease (Borrelia Abs) IgM	BORM	В	2 days	£59.00	75, 81

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Lymphocyte Subsets (CD3/CD4/CD8)	LYSS	A 10/Chex	1 day	£208.00	32, 90
Lymphogranuloma Venerium (LGV)	LGVP	PCR* 42	1-2 weeks	£96.00	61
Lysosomal Enzyme Screen	LE	O O 6	2 months	£634.00	27
Lysozyme	LYS0	B	5 days	£72.00	27
Macrolide Resistance Test (Mgen)	MGR	FCRU/PCR	1-2 weeks	£162.00	61
Macroprolactin	PRLD	В	4 days	£211.00	46
Magnesium (Serum)	MG	В	4 hours	£34.00	27, 151
Magnesium (Urine)	URMG	PU	1 day	£38.00	27, 152
Magnesium (Whole blood)	RCMG	(A) or (1)	4 days	£78.00	140
Malarial Antibodies (Pl. falciparum)	MALA	B 9,14	5 days	£62.00	81
Malarial Antibodies (species specific)	MALS	B 9,14	10 days	£80.00	81
Malarial Parasites	MALP	A 4,9,14	STAT	£50.00	32
Male Genetic Reproductive Profile	GRP	A () 9	10-15 days	£740.00	109, 112, 124
Male Hormone Profile	MIPR	В	4 hours	£149.00	46, 50
Manganese (Serum)	MANG	В	5 days	£64.00	27, 151
Mannose Binding Lectin	MBL	В	3 weeks	£93.00	27
MBOCA in Urine	MBOC	RU	10 days	£97.00	152
Mean Cell Volume (MCV)	MCV	A	4 hours	£28.00	32
Measles Antibodies (IgG) Immunity	MEAS	В	1 day	£61.00	85, 93
Measles Antibodies (IgM)	MEAM	B 9	2 days	£61.00	85, 93
Measles PCR	MEAP	Buccal swab	48 hours	£113.00	93
Measles, Mumps, Rubella (MMR)	MMR	B	1 day	£131.00	85
Melanin	MELA	RU ¹³	5 days	£61.00	46
Melatonin (Serum)	MEL	(Frozen)	5 days	£82.00	46
Melatonin (Urine)	UMEL	CU ¹³	2 weeks	£117.00	46
Meningococcal Abs	MENI	B	2-4 weeks	£82.00	75
Menopause Profile	MENO	В	4 hours	£121.00	46, 51
Mercury (Blood)	MERC	(A) or (H)	5 days	£50.00	27, 151
Mercury (Urine)	URHG	RU ¹	5 days	£67.00	27, 152
MERS Coronavirus Test	MERS	J	1 day	£150.00	93
Metabolic Syndrome Profile	METS	ABBG	9 days	£243.00	46, 51
Metanephrines (Plasma)	PMET	(Frozen plasma)	7 days	£146.00	46
Metanephrines (Urine)	UMEX	PU ¹	5 days	£121.00	46
Methaemoglobin	METH	A	3 days	£80.00	27
Methaqualone	METQ	RU	5 days	£33.00	27
Methotrexate	METX	B	2 days	£118.00	126
Methylmalonic Acid – Serum	MMAS	В	5 days	£189.00	27
Methylmalonic Acid – Urine	MMA	CU	2 weeks	£118.00	27
Metronidazole Level	METR	B ⁴	7 days	£82.00	125
Microalbumin (Urine)	UMA	RU	4 hours	£62.00	27
Microdeletion (common) Syndromes – BOBs only	PB0B	CVS/AF/(A)9	5 days	£205.00	112

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Microfilaria Blood Film	MICF	A	STAT	£30.00	32
Miller-Dieker Syndrome – BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/A (1)9	5-15 days	£575.00	112
Miller-Dieker Syndrome – BOBs only	PB0B	CVS/AF/(A)9	5 days	£205.00	112
Mineral Screen	MINE	B (§	5 days	£161.00	139-140
Mineral Screen (Whole blood)	RMIN	00	5 days	£175.00	139-140
Mineral Screen and Industrial Heavy Metal Screen (Trace Metals)	TRAC	4800	7-10 days	£254.00	140, 151
Miscarriage/Thrombotic Risk Profile	PROP	AABCC ¹⁸	5 days	£690.00	33, 35, 124
Mitochondrial Antibodies	AMIT	B	2 days	£43.00	75
Mitochondrial Antibodies M2	MAM2	В	2 days	£192.00	75
Molybdenum (Serum)	MOLY	B	5 days	£63.00	152
MRSA (Rapid PCR) one swab per site	MRSA	Blue Micro Swab	4 hours	£64.00	36
MRSA Culture one swab per site	MRSW	Blue Micro Swab	2 days	£50.00	36
Mucopolysaccharides	MPS	RU (Frozen)	3 weeks	£113.00	28
Mumps Antibodies (IgG)	MUMP	B	1 day	£61.00	85
Mumps Antibodies (IgM)	MUMM	B	1 day	£61.00	85, 93
Myasthenia Gravis Evaluation	MGE	B	5 days	£140.00	75
Mycology/Skin Scrapings by PCR	DERM	Submit Sample	3-7 days	£45.00	36
Mycophenolic Acid (Cellcept)	MYCP	A	5 days	£118.00	126
Mycoplasma genitalium by PCR	MGEN	FCRU/PCR/TPV	2 days	£75.00	61, 156
Mycoplasma genitalium/Ureaplasma by PCR	MUPC	FCRU/PCR/TPV	2 days	£97.00	61
Mycoplasma pneumoniae IgM and IgG	MYC0	B	2 days	£57.00	93
Mycoplasma species – DNA	MPCR	A	5 days	£183.00	93
Mycoplasma/Ureaplasma Culture					36
Myelin Associated Glycoprotein Antibodies	MAG	B	5 days	£263.00	75
Myelin Basic Protein Antibodies	MBPA	B	2 weeks	£85.00	75
Myeloma Screen	MYEL	(A) (B) (C) RU	5 days	£129.00	28, 30
Myeloperoxidase Antibodies	MP0	B	2 days	£49.00	75
Myocardial Antibodies	MY0	B	1 week	£66.00	75
Myoglobin (Serum)	SMY0	B	4 hours	£61.00	28
Myoglobin (Urine)	UMY0	RU	5-10 days	£86.00	28
Myositis Panel	MYOS	B	2 days	£97.00	75
Mysoline (Primidone)	PRIM	B ⁴	3 days	£62.00	126
N. Gonorrhoea	TGON	TPV	2 days	£75.00	61, 156
Nail Clippings	DERM	Nail clippings	3-7 days	£45.00	36
Natural Killer Profile 2	NKP2	A	2 days	£229.00	32, 35
Needle Stick Injury Profile	NSI	BB	4 hours	£155.00	85
Neurological Viral Screen	NVIR	BB	2 days	£153.00	93-94
Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2)	NEUR	B	10 days	£252.00	75
Neurone Specific Enolase	NSE	B	5 days	£149.00	95
Newborn Screening Panel	GUTH	J ¹	2 weeks	£153.00	28
Nickel (Serum)	NICK	B	5 days	£63.00	28, 151
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TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Nickel (Urine)	NICU	RU	5 days	£67.00	28, 152
NK (CD69) and NK Cytotoxicity	69C	000*	Send Mon-Thurs only	£637.00	49
NK (CD69) Cell Assay	CD69	() *	send Mon – Thurs only	£229.00	49
NK Assay Follow-Up Panel	5RF	000	1 week	£341.00	48
NK Assay Panel + Intralipids	16RF	000	1 week	£501.00	48
NK Assay/Cytotoxicity Panel	4RF	000	1 week	£402.00	48
NK Cytotoxicity Assay	HSNK	000*	Send Mon-Thurs only	£538.00	49
NK Cytotoxicity with suppression, steroid, IVIg & Intralipin	NKCY	000*	Send Mon-Thurs only	£686.00	49
NK Cytotoxicity with suppression with steroid, IVIg and intralipin, and NK (CD69) cell assay	69CI	000 *	Send Mon-Thurs only	£749.00	49
NMDA Receptor Antibodies	NMDA	В	3 weeks	£185.00	75
NMP22 (Bladder tumour)	NMP	J ¹	4 days	£75.00	28, 95
Non-Invasive Prenatal Testing – common aneuploidy screening from maternal blood	NIPT	J/Special tubes ¹	3-5 days	£295.00	113, 120-123
Non-Invasive Prenatal Testing – common aneuploidy screening from maternal blood plus 22q11.2 del	NIPQ	J/Special tubes ¹	3-5 days	£385.00	113, 120-123
Nucleic Acid Antigen Antibodies	DNA	B	2 days	£64.00	75
Oestradiol (E2)	0EST	B	4 hours	£44.00	46
Oestriol (Estriol)	E3	BB	4 days	£86.00	46
Oestrone	E1	88	4 days	£86.00	46
Olanzapine	OLAN	A ⁴	5 days	£103.00	126
Oligoclonal Bands	CSF0	CSF+ 📵	5 days	£211.00	75
Oligosaccharides	UOLI	RU	6 weeks	£194.00	28
Olive Components	ZZ14	В	2 days	£56.00	137
Omega 3/Omega 6	OMG3	A 4	4 days	£105.00	140-141
Opiate Screen (Urine)	UOPI	RU	2 days	£48.00	149
Orosomucoid (A1AG – Alpha 1 Glycoprotein)	OROS	<u> </u>	5 days	£137.00	28
Osmolality (Serum)	0SM0	<u> </u>	1 day	£43.00	28
Osmolality (Urine)	ROSM	RU	1 day	£41.00	28
Osteocalcin	0ST	(Frozen) ⁴	4 days	£175.00	46, 95
Osteoporosis Screen	0PS	88	4 days	£144.00	28, 31
Ovarian Autoantibodies	OVAB	В	2 days	£62.00	75
Oxalate (Plasma)	POXA	(Frozen)	7 days	£85.00	28
Oxalate (Urine)	UOXA	PU	5 days	£72.00	28
Oxidative Stress in Semen (ROS+MIOXSYS)	SROS	Semen ¹	1 day	£206.00	57
PAI1 4G/5G Polymorphism	PAIP	A	10 days	£192.00	32
Pan-Ethnic/Jewish Carrier Screening	GENE	A 9	4 weeks	£600.00	114, 119, 124
Pancreatic Peptide	PP	J	4 weeks	£188.00	28
					

PAPT and HPV	TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Paragomius Serology PRGM ③ 2 weeks £115.00 75 Parattyroid Antibodies PTHA ⑤ 1 week £79.00 75 Parattyroid Hormone (Whole) PTHI ⑥ 1 week £79.00 75 Parattyroid Related Peptide PTHP J¹ 2 weeks £133.00 28 Paravalbumins Z229 ⑥ 2 days £83.00 13 Parvovirus Antibodies (IgM) PARV ⑥ 2 weeks £173.00 93 Parvovirus IgG Antibodies PARG ⑥ 2 weeks £173.00 93 Parvovirus IgG Antibodies PARG ⑥ 2 days £60.00 93 Patemity Testing (postnatal and prenatal)—sample required from each person being tested (3 people) £640.00 \$640.00 \$640.00 Paul Bunnell (Monospot) PAUL ⑥ or ⑥ 8 hours £29.00 32 Peacht Components Z215 ⑥ 2 days £50.00 137 Peanut Supphigoid Autoantibodies SKAB ⑥ 2 days	PAPT and HPV		TPV	2-3 days		158
Parathyroid Antibodies PTHA ① 1 week £79.00 75 Parathyroid Hormone (Whole) PTHI ①⁴ 1 day £101.00 46 Parathyroid Related Peptide PTRP J¹ 2 weeks £133.00 28 Parvolrius Antibodies (IgM) PARV ⑥ 2 days £83.00 137 Parvovirus DNA by PCR PCRP ⑥ 2 weeks £173.00 93 Parvovirus IgG Antibodies PARC ⑥ 2 days £66.00 93 Parvovirus IgG/IgM Abs PARP ⑥ 2 days £66.00 93 Paternity Testing (postnatal and prenatal)—sample required from each person being testing (2) people) PART ⑥/AF/CVS³**** £64.00 114 Paul Bunnell (Monospot) PAUL ⑥ of ⑥ 8 hours £29.00 32 Peach Components Z215 ⑥ 2 days £10.00 137 Peanut Components Z216 ⑥ 2 days £16.00 137 Pennhigus/Pemphigoid Autoantibodies SKAB ⑥	Paracetamol	PARA	В	4 hours	£98.00	126
Parathyroid Hormone (Whole) PTHI G¹ 1 day £101.00 46 Parathyroid Related Peptide PTRP J¹ 2 weeks £13.00 28 Parvalbumins ZZ29 G 2 days £83.00 137 Parvovirus Antibodies (lgM) PARV G 2 days £76.00 93 Parvovirus IgG Antibodies PARG G 2 weeks £173.00 93 Parvovirus IgG Antibodies PARG G 2 days £78.00 93 Parvovirus IgG (JgM Abs PARP G 2 days £78.00 93 Paternity Testing (postnatal and prenatal)—sample required from each person being tested (3 people) PATT Contact lab 5 days £64.00 Paul Bunnell (Monospot) PAUL Ø or G 8 hours £29.00 32 Peach Components ZZ15 G 2 days £110.00 137 Pemphigus/Pemphigoid Autoantibodies SKAB G 2 days £760.00 138 Perioparative Anaphylaxis Panel (BaHRT) RDP2	Paragomius Serology	PRGM	B	2 weeks	£115.00	75
Parathyroid Related Peptide PTRP J¹ 2 weeks £13.00 28 Parvalbumins ZZ29 3 2 days £83.00 137 Parvovirus Antibodies (IgM) PARV 6 2 days £76.00 93 Parvovirus DNA by PCR PCRP 4 2 weeks £173.00 93 Parvovirus IgG/IgM Abs PARB 6 2 days £68.00 93 Paternity Testing (postnatal and prenatal)—sample required from each person being tested (3 people) PAIT Contact lab 5 days £640.00 1 Paul Bunnell (Monospot) PAUL 4 or 6 8 hours £29.00 32 Peach Components ZZ15 3 2 days £110.00 137 Peanut Components ZZ16 6 2 days £10.00 137 Pennbrigus/Pemphigoid Autoantibodies SKAB 6 2 days £10.00 137 Pennbrigus/Pemphigoid Autoantibodies SKAB 6 2 days £50.00 75 Pennbigus/Pemphigoid Autoantibodies SK	Parathyroid Antibodies	PTHA	3	1 week	£79.00	75
Parvalbumins	Parathyroid Hormone (Whole)	PTHI	B 4	1 day	£101.00	46
Parvovirus Antibodies (IgM)	Parathyroid Related Peptide	PTRP	J ¹	2 weeks	£133.00	28
Parvovirus DNA by PCR	Parvalbumins	ZZ29	B	2 days	£83.00	137
Parvovirus IgG Antibodies	Parvovirus Antibodies (IgM)	PARV	В	2 days	£76.00	93
Parvovirus Ig6/IgM Abs	Parvovirus DNA by PCR	PCRP	A	2 weeks	£173.00	93
Paternity Testing (postnatal and prenatal) – sample required from each person being tested (3 people) PATT ⚠ /AF/CVS 3.11.12 (Ontact lab) 5 days (by exception includes VAT) 114 (by exception includes VAT) 3 2 days (by exception includes VAT) 3 2 2 days (by exception includes VAT) 3 2 2 days (by exception includes VAT) 117 (by exception includes VAT) 137 Penanut Components 2216 (3) (3) (2) (2) (2) (3) (3) (2) (2) (2) (3) (3) (2) (2) (2) (3) (3) (2) (2) (2) (3) (3) (2) (2) (2) (3) (3) (2) (2) (2) (3) (3) (2) (2) (2) (3) (3) (2) (2) (3) (3) (2) (3) (3) (2) (2) (3) (3) (2) (3) (3) (3) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	Parvovirus IgG Antibodies	PARG	B	2 days	£68.00	93
Part Contact lab S days Chy exception includes VAT	Parvovirus IgG/IgM Abs	PARP	В	2 days	£78.00	93
Peach Components ZZ15 3 2 days £110.00 137 Peanut Components ZZ16 3 2 days £164.00 137 Pemphigus/Pemphigoid Autoantibodies SKAB 3 2 days £52.00 75 Penicillin Antibiotic Panel (BaHRT) RDP2 10 3 days £760.00 138 Perioperative Anaphylaxis Panel (BaHRT) RDP1 10 3 days £10,39.00 138 Pertussis (Whooping Cough) Antibodies PERS 3 5 days £10,30.00 85 PEth (Phosphatidylethanol) PETH 10 3°3 5-7 days £91.00 28,149 Pethidine – Urine UPET RU 4 weeks £232.00 152 Phelan-McDermid Syndrome KARY, - ISH CVS/AF/(1)° 12-17 days £670.00 114 Phencyclidine (PCP) DUST RU 5 days £660.00 28 Phencyclidine (PCP) DUST RU 5 days £670.00 114 Phencyclidine (PCP) DUST <t< th=""><th>sample required from each person being</th><th>PATT</th><th>-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</th><th>5 days</th><th>(by exception</th><th>114</th></t<>	sample required from each person being	PATT	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5 days	(by exception	114
Peanut Components ZZ16 3 2 days £164.00 137 Pemphigus/Pemphiguid Autoantibodies SKAB 3 2 days £52.00 75 Penicillin Antibiotic Panel (BaHRT) RDP2 10 3 days £760.00 138 Perioperative Anaphylaxis Panel (BaHRT) RDP1 10 3 days £10,39.00 138 Pertussis (Whooping Cough) Antibodies PERS 13 5 days £10,39.00 85 PEth (Phosphatidylethanol) PETH 23°s 5 7 days £91.00 28,149 Pethidine – Urine UPET RU 4 weeks £232.00 152 Phelan-McDermid Syndrome – Karly otype + FISH FISH CVS/AF/(1)³ 12-17 days £670.00 114 Phencyclidine (PCP) DUST RU 5 days £670.00 21 Phencyclidine (PCP) DUST RU 5 days £660.00 28 Phencyclidine (PCP) DUST RU 5 days £670.00 114 Phencyclidine (PCP) DUST <th< th=""><th>Paul Bunnell (Monospot)</th><th>PAUL</th><th>(A) or (B)</th><th>8 hours</th><th>£29.00</th><th>32</th></th<>	Paul Bunnell (Monospot)	PAUL	(A) or (B)	8 hours	£29.00	32
Pemphigus/Pemphiguid Autoantibodies SKAB 3 2 days £52.00 75 Penicillin Antibiotic Panel (BaHRT) RDP2 1 € 3 days £760.00 138 Perioperative Anaphylaxis Panel (BaHRT) RDP1 1 € 3 days £10,39.00 138 Pettussis (Whooping Cough) Antibodies PERS 3 5 days £103.00 85 PEth (Phosphatidylethanol) PETH 38 5-7 days £91.00 28,149 Pethidine – Urine UPET RU 4 weeks £232.00 152 Phelan-McDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/(1)³ 12-17 days £670.00 114 Phencyclidine (PCP) DUST RU 5 days £66.00 28 Phenobarbitone PHB 3 4 hours £52.00 126 Phenytoin (Epanutin) PHEN 3 4 hours £52.00 126 Phosphate PHOS 3 4 hours £34.00 28 Phosphate (24 hr Urine) UPH PU	Peach Components	ZZ15		2 days	£110.00	137
Penicillin Antibiotic Panel (BaHRT) RDP2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Peanut Components	ZZ16	3	2 days	£164.00	137
Perioperative Anaphylaxis Panel (BaHRT) RDP1 ① ① ① ③ 3 days £1,039.00 138 Pertussis (Whooping Cough) Antibodies PERS ⑤ 5 days £103.00 85 PEth (Phosphatidylethanol) PETH ⑥ ³³8 5-7 days £91.00 28, 149 Pethidine – Urine UPET RU 4 weeks £232.00 152 Phelan-McDermid Syndrome – karyotype + FISH KARY, – karyotype + FISH FISH CVS/AF/⑥³ 12-17 days £670.00 114 Phenopolidine (PCP) DUST RU 5 days £66.00 28 Phenobarbitone PHB ⑥ 4 hours £52.00 126 Phenytoin (Epanutin) PHEN ⑥ 4 hours £52.00 126 Phosphate PHOS ⑥ 4 hours £52.00 126 Phosphate (24 hr Urine) UPH PU 4 hours £34.00 28 Phosphate (24 hr Urine) UPH PU 4 hours £34.00 28 Pituitary Antibodies PITU ⑥ 1 day	Pemphigus/Pemphigoid Autoantibodies	SKAB	B	2 days	£52.00	75
Pertussis (Whooping Cough) Antibodies PERS ⑤ 5 days £103.00 85 PEth (Phosphatidylethanol) PETH ⑥ 38 5-7 days £91.00 28, 149 Pethidine – Urine UPET RU 4 weeks £232.00 152 Phelan-McDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/ ⑥ 3 12-17 days £670.00 114 Phenopolidine (PCP) DUST RU 5 days £66.00 28 Phenobarbitone PHB ⑥ 4 hours £52.00 126 Phenytoin (Epanutin) PHEN ⑥ 4 hours £52.00 126 Phosphate PHOS ⑥ 4 hours £52.00 126 Phosphate (24 hr Urine) UPH PU 4 hours £34.00 28 Pituitary Antibodies PITU ⑥ 4 hours £34.00 28 Pituitary Function Profile PITF ⑥ ② 1 day £165.00 46,51 PLAC Test (Lp-PLA2) PLA2 ⑥ 3 days £48.00 33	Penicillin Antibiotic Panel (BaHRT)	RDP2		3 days	£760.00	138
PEth (Phosphatidylethanol) PETH № 38 5-7 days £91.00 28, 149 Pethidine – Urine UPET RU 4 weeks £232.00 152 Phelan-McDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/	Perioperative Anaphylaxis Panel (BaHRT)	RDP1	00	3 days	£1,039.00	138
Pethidine – Urine UPET RU 4 weeks £232.00 152 Phelan-McDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/⊕³ 12-17 days £670.00 114 Phenoyclidine (PCP) DUST RU 5 days £66.00 28 Phenobarbitone PHB ③ 4 hours £52.00 126 Phenytoin (Epanutin) PHEN ③ 4 hours £52.00 126 Phosphate PHOS ④ 4 hours £22.00 28 Phosphate (24 hr Urine) UPH PU 4 hours £34.00 28 Pituitary Antibodies PITU ⑥⁴ 1 day £165.00 46,51 PLAC Test (Lp-PLA2) PLA2 ⑥ 2 days £100.00 28 Plasminogen PLAS ⑥ (Frozen plasma) 2 weeks £22.00 28 Plasminogen Activator Inhibitor – 1 PAl1 ⑥ (Frozen plasma) 2 weeks £222.00 28 Plasminogen Activator Inhibitor – 1 PAl1 ⑥ (Frozen plasma) 2 week	Pertussis (Whooping Cough) Antibodies	PERS	B	5 days	£103.00	85
Phelan-McDermid Syndrome − karyotype + FISH KARY, FISH CVS/AF/⊕³ 12-17 days £670.00 114 Phenocyclidine (PCP) DUST RU 5 days £66.00 28 Phenobarbitone PHB ③ 4 hours £52.00 126 Phenytoin (Epanutin) PHEN ⑤ 4 hours £52.00 126 Phosphate PHOS ⑥ 4 hours £22.00 28 Phosphate (24 hr Urine) UPH PU 4 hours £34.00 28 Phosphate (24 hr Urine) UPH PU 4 hours £34.00 28 Pituitary Antibodies PITU ⑥⁴ 1 month £83.00 75 Pituitary Function Profile PITF ⑥ ⑥ 1 day £165.00 46, 51 PLAC Test (Lp-PLA2) PLA2 ⑥ 2 days £100.00 28 Plasma Viscosity VISC ⑥⁴ 3 days £48.00 33 Plasminogen PLAS ⑥ (Frozen plasma) 2 weeks £222.00 28	PEth (Phosphatidylethanol)	PETH	A 38	5-7 days	£91.00	28, 149
Phencyclidine (PCP) DUST RU 5 days £66.00 28 Phenobarbitone PHB ③ 4 hours £52.00 126 Phenytoin (Epanutin) PHEN ⑤ 4 hours £52.00 126 Phosphate PHOS ⑥ 4 hours £52.00 28 Phosphate (24 hr Urine) UPH PU 4 hours £34.00 28 Pituitary Antibodies PITU ⑥⁴ 1 month £83.00 75 Pituitary Function Profile PITF ⑥ ⑥ 1 day £165.00 46,51 PLAC Test (Lp-PLA2) PLA2 ⑥ 2 days £100.00 28 Plasma Viscosity VISC ⑥⁴ 3 days £48.00 33 Plasminogen PLAS ⑥ (Frozen plasma) 2 weeks £222.00 28 Plasminogen Activator Inhibitor − 1 PAl1 ⑥ (Frozen plasma) 2 weeks £222.00 28 Platelet Aggregation Studies PLAG J⁵56 3 days £272.00 <	Pethidine – Urine	UPET	RU	4 weeks	£232.00	152
Phenobarbitone PHB € 4 hours £52.00 126 Phenytoin (Epanutin) PHEN € 4 hours £52.00 126 Phosphate PHOS € 4 hours £52.00 28 Phosphate (24 hr Urine) UPH PU 4 hours £34.00 28 Pituitary Antibodies PITU € 1 month £83.00 75 Pituitary Function Profile PITF € 6 1 day £165.00 46,51 PLAC Test (Lp-PLA2) PLA2 € 2 days £100.00 28 Plasma Viscosity VISC ♣ 3 days £48.00 33 Plasminogen PLAS € (Frozen plasma) 2 weeks £72.00 28 Plasminogen Activator Inhibitor − 1 PAl1 € (Frozen plasma) 2 weeks £222.00 28 Platelet Aggregation Studies PLAG J⁵56 3 days £272.00 33 Pleural Fluid for Culture FLUP SC 7 days £50.00	•	,	CVS/AF/(1)9	12-17 days	£670.00	114
Phenytoin (Epanutin) PHEN ⑤ 4 hours £52.00 126 Phosphate PHOS ⑥ 4 hours £22.00 28 Phosphate (24 hr Urine) UPH PU 4 hours £34.00 28 Pituitary Antibodies PITU ⑥⁴ 1 month £83.00 75 Pituitary Function Profile PITF ⑥ ⑥ 1 day £165.00 46, 51 PLAC Test (Lp-PLA2) PLA2 ⑥ 2 days £100.00 28 Plasma Viscosity VISC ⑥⁴ 3 days £48.00 33 Plasminogen PLAS ⑥ (Frozen plasma)⁴ 5 days £72.00 28 Plasminogen Activator Inhibitor − 1 PAl1 ⑥ (Frozen plasma)⁴ 2 weeks £222.00 28 Platelet Aggregation Studies PLAG J⁵.6 3 days £272.00 28 Platelet Aggregation Studies PLAG J⁵.6 3 days £272.00 33 Pleural Fluid for Culture FLUP SC 7 days <	Phencyclidine (PCP)	DUST	RU	5 days	£66.00	28
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Pituitary Function Profile PITF ③ ⑤ 1 day £165.00 46, 51 PLAC Test (Lp-PLA2) PLA2 ⑥ 2 days £100.00 28 Plasma Viscosity VISC ♣ 3 days £48.00 33 Plasminogen PLAS ⑥ (Frozen plasma)⁴ 5 days £72.00 28 Plasminogen Activator Inhibitor − 1 PAl1 ⑥ (Frozen plasma) 2 weeks £222.00 28 Platelet Aggregation Studies PLAG J⁵.6 3 days £272.00 33 Pleural Fluid for Culture FLUP SC 7 days £50.00 36 Pneumococcal Antibodies – Serotype Specific PASS ⑥ 5 weeks £221.00 75 Pneumococcal Antibody Screen PNEU ⑥ 7 days £91.00 75, 85 Pneumococcal Antigen PNAG RU 1 day £82.00 36 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{±‡} 2-3 days £80.00 37	Phosphate (24 hr Urine)	UPH	PU	4 hours	£34.00	28
PLAC Test (Lp-PLA2) PLA2 3 days £100.00 28 Plasma Viscosity VISC 3 days £48.00 33 Plasminogen PLAS (Frozen plasma) ⁴ 5 days £72.00 28 Plasminogen Activator Inhibitor − 1 PAl1 (Frozen plasma) 2 weeks £222.00 28 Platelet Aggregation Studies PLAG J⁵.6 3 days £272.00 33 Pleural Fluid for Culture FLUP SC 7 days £50.00 36 Pneumococcal Antibodies − Serotype Specific PASS 3 tweeks £221.00 75 Pneumococcal Antibody Screen PNEU 5 weeks £221.00 75 Pneumococcal Antigen PNAG RU 1 day £82.00 36 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{±‡} 2-3 days £80.00 37	Pituitary Antibodies	PITU	B ⁴	1 month	£83.00	75
Plasma Viscosity VISC 3 days £48.00 33 Plasminogen PLAS (Frozen plasma) ⁴ 5 days £72.00 28 Plasminogen Activator Inhibitor − 1 PAI1 (Frozen plasma) 2 weeks £222.00 28 Platelet Aggregation Studies PLAG J⁵.6 3 days £272.00 33 Pleural Fluid for Culture FLUP SC 7 days £50.00 36 Pneumococcal Antibodies − Serotype Specific PASS 3 tweeks £221.00 75 Pneumococcal Antibody Screen PNEU 3 tweeks £221.00 75 Pneumococcal Antigen PNAG RU 1 day £82.00 36 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{±‡} 2-3 days £80.00 37	Pituitary Function Profile	PITF	BB	1 day	£165.00	46, 51
Plasminogen PLAS ⓒ (Frozen plasma) ⁴ 5 days £72.00 28 Plasminogen Activator Inhibitor − 1 PAI1 ⓒ (Frozen plasma) 2 weeks £222.00 28 Platelet Aggregation Studies PLAG J⁵.6 3 days £272.00 33 Pleural Fluid for Culture FLUP SC 7 days £50.00 36 Pneumococcal Antibodies − Serotype Specific PASS ⓒ 5 weeks £221.00 75 Pneumococcal Antibody Screen PNEU ⓒ 7 days £91.00 75, 85 Pneumococcal Antigen PNAG RU 1 day £82.00 36 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{±‡} 2-3 days £80.00 37	PLAC Test (Lp-PLA2)	PLA2	B	2 days	£100.00	28
Plasminogen Activator Inhibitor – 1 PAI1 © (Frozen plasma) 2 weeks £222.00 28 Platelet Aggregation Studies PLAG J5.6 3 days £272.00 33 Pleural Fluid for Culture FLUP SC 7 days £50.00 36 Pneumococcal Antibodies – Serotype Specific PASS © 5 weeks £221.00 75 Pneumococcal Antibody Screen PNEU © 7 days £91.00 75, 85 Pneumococcal Antigen PNAG RU 1 day £82.00 36 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{±‡} 2-3 days £80.00 37	Plasma Viscosity	VISC	A 4	3 days	£48.00	33
Platelet Aggregation Studies PLAG J5.6 3 days £272.00 33 Pleural Fluid for Culture FLUP SC 7 days £50.00 36 Pneumococcal Antibodies – Serotype Specific PASS 5 weeks £221.00 75 Pneumococcal Antibody Screen PNEU 7 days £91.00 75, 85 Pneumococcal Antigen PNAG RU 1 day £82.00 36 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{±+} 2-3 days £80.00 37	Plasminogen	PLAS	(Frozen plasma) ⁴	5 days	£72.00	28
Pleural Fluid for Culture FLUP SC 7 days £50.00 36 Pneumococcal Antibodies – Serotype Specific PASS 5 weeks £221.00 75 Pneumococcal Antibody Screen PNEU 7 days £91.00 75,85 Pneumococcal Antigen PNAG RU 1 day £82.00 36 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{±+} 2-3 days £80.00 37	Plasminogen Activator Inhibitor – 1	PAI1	(Frozen plasma)	2 weeks	£222.00	28
Pneumococcal Antibodies – Serotype Specific PASS Steeks £221.00 75 Pneumococcal Antibody Screen PNEU Transparent 7 days £91.00 75, 85 Pneumococcal Antigen PNAG RU 1 day £82.00 36 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{±‡} 2-3 days £80.00 37	Platelet Aggregation Studies	PLAG	J ^{5,6}	3 days	£272.00	33
Pneumococcal Antibody Screen PNEU © 7 days £91.00 75, 85 Pneumococcal Antigen PNAG RU 1 day £82.00 36 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{±‡} 2-3 days £80.00 37	Pleural Fluid for Culture	FLUP	SC	7 days	£50.00	36
Pneumococcal Antigen PNAG RU 1 day £82.00 36 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{±‡} 2-3 days £80.00 37	Pneumococcal Antibodies – Serotype Specific	PASS	3	5 weeks	£221.00	75
Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{‡‡} 2-3 days £80.00 37	Pneumococcal Antibody Screen	PNEU	B	7 days	£91.00	75, 85
	Pneumococcal Antigen	PNAG	RU	1 day	£82.00	36
Pneumonia (Atypical) Screen APS 3 2 days £116.00 93-94	Pneumocystis Jiroveci (PCP) Examination	PCYS	BAL ^{‡‡}	2-3 days	£80.00	37
	Pneumonia (Atypical) Screen	APS	B	2 days	£116.00	93-94

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Polcalcins	ZZ25	B	2 days	£83.00	137
Polio Virus 1, 2, 3 Antibodies	P0L0	B 9	15 days	£272.00	85
Polycystic Ovary Syndrome Profile	PCOP	ABBB G ⁷	5 days	£470.00	46, 51
Polycystic Ovary Syndrome SHORT	PCOS	BG	4 hours	£149.00	46, 51
Porphyrin (Blood)	PORP	A 3	15 days	£186.00	28
Porphyrins (Faeces)	FPOR	RF ³	3 weeks	£106.00	28
Porphyrins Full Screen (Total: Urine, Stool, Blood)	PORS	A RU,RF ³	3 weeks	£424.00	28
Porphyrins Screen (Urine)	RPOR	RU ³	3 weeks	£136.00	28
Post-Travel Screen 1	PTS	A B C 14	10 days	£218.00	81-82
Post-Travel Screen 2	PTS2	A B B B G 14	10 days	£411.00	81-82
Postnatal array CGH	CGH	A () 9	10 days	£650.00	118
Potassium	K	B	4 hours	£22.00	28
PR-10 Proteins	ZZ22	B	2 days	£222.00	137
Prader-Willi Syndrome (Primary Screen) – methylation PCR	PWAM	A 9	5 days	£385.00	114
Pre-Travel Screen (DVT)	DVT1	AA B 9	5 days	£232.00	32, 35, 81-82, 107, 124
Prealbumin	PALB	В	3 days	£72.00	130
Pregnancy (Serum) [Quantitative]	QHCG	В	4 hours	£49.00	28, 46
Pregnancy Test (Urine)	PREG	RU	4 hours	£32.00	28
Pregnanetriol (Urine)	UPTR	CU (Frozen)	5 days	£114.00	46
Pregnenolone	PREN	В	15 days	£100.00	46
Prenatal array CGH	CGH	Amniotic fluid or CVS ⁹	10 days	£650.00	118
Primidone (Mysoline)	PRIM	B ⁴	3 days	£62.00	126
Procalcitonin	PCAL	(Frozen) ^{4,7}	1 day	£92.00	28
Procollagen 1 Peptide N-Terminal (NTX)	P1NP	В	5 days	£244.00	28
Procollagen III Peptide	PRC0	В	5 days	£135.00	28
Product of Conception – rapid BOBs aneuploid diagnosis for all chromosomes (5 days) + culture (25 days)	y PBK	Placental Sample 1,9	5-25 days	£520.00	115, 124
Product of Conception BOBs only – rapid aneuploidy diagnosis for all chromosomes	KB0B	Placental Sample or Solid Tissue 1,9	3-6 days	£205.00	115
Profilins	ZZ24	B	2 days	£220.00	137
Progesterone	PROG	3	4 hours	£44.00	46
Proinsulin	PROI	(Plasma Frozen) ⁴	5 days	£202.00	46
Prolactin	PROL	B	4 hours	£44.00	46
Prolactin (Macro)	PRLD	3	4 days	£211.00	46
Propanalol	PR0	B ⁴	7 days	£93.00	127
Propoxyphene	DPR0	RU	5 days	£93.00	28
Prostate Profile (Total & Free PSA)	PR2	B	4 hours	£78.00	95
Prostate Specific Antigen (Total)*	PSPA	В	4 hours	£57.00	95
Prostatic Acid Phosphatase	PACP	(Frozen)	3 days	£50.00	28

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Protein (Urine)	UPRT	CU	4 hours	£33.00	28
Protein 14.3.3 (Creutzfeldt-Jakob Disease)	CJD	CSF (Frozen)	5 weeks	£445.00	28
Protein C	PRC	(Frozen) 4,9,18	3 days	£56.00	33
Protein Electrophoresis incl. immunoglobin	PRTE	В	2-4 days	£91.00	28
Protein S Free Ag	FPRS	(Frozen) 4,9,18	3 days	£56.00	33
Protein Total (Blood)	PROT	В	4 hours	£22.00	28
Protein/Creatinine Ratio (Urine)	UCPR	RU	4 hours	£62.00	28
Proteinase 3 Ab	PR3	В	2 days	£48.00	75
Prothrombin Time	PTIM	© 18	4 hours	£24.00	32
Prothrombin Time + Dose	PT+D	© 18	4 hours	£48.00	32
Purkinje Cell Antibody (Hu and Yo)	NEUR	В	10 days	£53.00	75
Pyruvate Kinase (M2-PK)	M2PK	A	5 days	£80.00	95
Pyruvate Kinase (M2-PK)	M2ST	RF ⁴	5 days	£80.00	95
Q Fever (C Burnetti) Antibodies	QFEV	B 9	10 days	£58.00	93
QF-PCR rapid common aneuploidy screen	APC	AF/A9	1-2 days	£230.00	115
Rabies Antibody	RABI	В	10 days	£130.00	85
Rapid Strep (incl. m/c/s)	RAPS	STM**	1-3 days**	£67.00	36
Recurrent Miscarriage Profile (female)	RMP	AAB (C) (C) (1) 9,18	10-15 days	£950.00	115, 124
Renal Calculi Screen (Metabolic)	RSPR	J 6	5 days	£150.00	28
Renal Stone Analysis	RSTA	STONE	10 days	£154.00	28
Renin	RENI	(Frozen plasma) 36	5 days	£108.00	46
Reproductive Immunophenotype Panel	3RF	000	1 week	£341.00	48
Reticulocyte Count	RETC	A	4 hours	£26.00	32
Retinol Binding Protein	RBP	В	3 days	£53.00	28
Retrograde Ejaculation	RTR0	Contact Lab	2 days	£79.00	57
Reverse T3	RT3	B 7,37	10 days	£110.00	46
Rheumatoid Factor (Latex Test)	RF	B	1 day	£28.00	75
Rheumatology Profile 1 (Screen)	RH	A B	2 days	£116.00	75, 80
Rheumatology Profile 2 (Connective tissue)	RH2	AABB	3 days	£344.00	76, 80
Rheumatology Profile 3 (Rheumatoid/Basic)	RH3	A B	2 days	£168.00	76, 80
Rheumatology Profile 4 (Systemic Lupus)	RH4	ABB	2 days	£259.00	76, 80
Rheumatology Profile 5 (Mono Arthritis)	RH5	AABB	3 days	£247.00	76, 80
Rheumatology Profile 6 (Rheumatoid Plus)	RH6	В	2 days	£85.00	76, 80
Rheumatology Profile 7 (Sjogren's Syndrome)	RH7	В	2 days	£85.00	76, 80
Rhinitis Provoking Profile	ALRN	В	2 days	£186.00	130
Rickettsial Species Antibody Profile	RICK	В	7 days	£94.00	76, 81
Risperidone	RISP	A ⁴	7 days	£160.00	127
Rotavirus in Stool by PCR	ROTA	RF	1 day	£79.00	93
RPR (VDRL)	RPR	В	2 days	£32.00	61, 76
Rubella Antibody (IgG)	RUBE	В	4 hours	£45.00	85, 93
Rubella Antibody (IgM)	RUBM	₿	4 hours	£64.00	85, 93
Rubella Avidity	RUAV	В	1 week	£122.00	93
Rubella PCR	RUBP	(A)/Amniotic Fluid	5 days	£146.00	85

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
S100 Malignant Melanoma	S100	B	4 days	£111.00	95
Saccharomyces Cerevisiae Antibodies	ASCA	B	2 weeks	£112.00	76
Salicylates	SALI	B	4 hours	£47.00	29
Salivary Duct Antibodies	SAB	В	12 days	£50.00	74
Sanjad-Sakati (Kenny-Caffey) Syndrome – common 12bp TBCE gene deletion	TBC	A 9	10 days	£360.00	115
Schistosoma (Urine)	USCH	Mid-morning terminal urine	8 hours	£53.00	37
Schistosome (Bilharzia) Antibodies	BILH	B 14	10 days	£94.00	81
Schistosome Antigen	SHAG	B	15 days	£78.00	81
Scleroderma Immunoblot	SCL1	B	5 days	£150.00	76
Screening Profile 1 – Biochemistry	PP1	BG	4 hours	£108.00	20
Screening Profile 2 – Haematology/ Biochemistry	PP2	ABG	4 hours	£149.00	20
Screening Profile 3 – Haematology	PP3	A	4 hours	£46.00	20, 32, 35
Screening Profile 4 – Haematology/ Biochemistry (Short)	PP4	ABG	4 hours	£143.00	20
Screening Profile 5 – Haematology/ Biochemistry (Postal)	PP5	ABG	4 hours	£143.00	20
Screening Profile 6 – Well Person	PP6	A B G	4 hours	£196.00	20
Screening Profile 7 – Well Man	PP7	A B G	4 hours	£242.00	21
Screening Profile 8 – Well Person	PP8	A B G	2 days	£242.00	21
Screening Profile 9F – Senior Female	PP9F	(A) (B) (G) RU RF ⁴	2 days	£433.00	21
Screening Profile 9M – Senior Male	PP9M	(A) (B) (G) RU RF ⁴	2 days	£453.00	21
Screening Profile 10 – Cardiovascular Risk 1	PP10	ВВ	3 days	£294.00	21, 24, 31
Screening Profile 11 – Cardiovascular Risk 2	PP11	BBB © 34	3 days	£355.00	21, 24, 31
Screening Profile 12 – Sexual Health Screen	PP12	FCRU/PCR/TPV/Semen	2 days	£240.00	21, 61, 71
Seed Storage Proteins	ZZ26	<u> </u>	2 days	£217.00	137
Selenium (Serum)	SELE	В	4 days	£62.00	29, 140
Selenium (Whole Blood)	SELR	(A) or (1)	4 days	£62.00	29, 140
Sellotape Test	SELL	Send Sample***	1 day	£50.00	37
Semen Analysis	SPER	Semen	2-4 days	£42.00	37
Semen Analysis, Comprehensive*	SPER	Semen ¹	2 days*	£179.00	57
Semen Analysis, Post-Vasectomy**	PVAS	Semen ¹	2 days	£97.00	57
Semen Analysis, Vasectomy Reversal*	SPER	Semen ¹	2 days*	£179.00	57
Semen Culture	SPCU	Semen	2-4 days	£42.00	37, 57
Semen Fructose	SPCF	Semen	2 days	£76.00	57
Semen Leucocytes	PMNS	Semen	2 days	£97.00	57
Semen Parameters	SPOD	Semen ¹	1 day	£64.00	57
Semen Zinc	SPCZ	Semen	up to 10 days	£32.00	57
Serotonin	SERT	(Frozen whole blood) ¹	10 days	£109.00	46
Serotonin (Urine)	USER	PU 50mls (Frozen) ¹	5 days	£130.00	46
Serum Albumins	ZZ30	<u> </u>	2 days	£162.00	137
Serum Free Light Chains	SLC	<u> </u>	1 week	£265.00	29

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Sex Hormone Binding Globulin	SHBG	В	4 hours	£52.00	46
Shrimp Components	ZZ17	В	2 days	£56.00	137
Sickle Solubility	SICK	A	4 days	£85.00	34
Silver (Blood)	SILV	B	5 days	£87.00	29, 151
Silver (Urine)	USIL	RU	5 days	£87.00	29, 152
Sinequan (Doxepin)	DOXE	A	10 days	£98.00	127
Single specialist drug allergy testing	RSD	00	3 days	£265.00	138
Sirolimus	SIR0	A	3 days	£108.00	127
Sjogren's Syndrome	RH7	B	2 days	£85.00	76, 80
Skin (Pemphigus/Pemphigoid) Autoantibodies	SKAB	B	2 days	£52.00	76
Skin Antibodies by Immunofluorescence	STSK	B	1 month	£199.00	76
Skin Scrapings/Mycology by PCR	DERM	Send Sample	3-7 days	£45.00	37
Sleeping Sickness Serology (African Trypanosomiasis)	TRYP	B 9	10 days	£169.00	93
Smith-Magenis Syndrome - BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/A (1)9	5-15 days	£575.00	116
Smith-Magenis Syndrome – BoBs only	PB0B	CVS/AF/(A)9	5 days	£205.00	116
Smooth Muscle Antibodies	ASM0	B	2 days	£43.00	76
Sodium	NA	B	4 hours	£22.00	29
Somatomedin (IGF-1)	SOMA	(Frozen) ⁴	1 day	£79.00	46
Soybean Components	ZZ18	B	2 days	£110.00	137
Specific Gravity (Urine)	USG	RU	24 hours	£15.00	37
Sperm Aneuploidy	SPPL	Semen ¹	4 weeks	£743.00	57
Sperm Antibodies (Serum)	ASAB	B	5 days	£112.00	57, 76
Sperm Antibodies / MAR Test (Semen)†	ASPA	Semen	1 day	£98.00	57
Sperm Comet®	CMET	Semen	1-2 weeks	£258.00	57
Sperm Count (Post-Vasectomy)	PVAS	Semen 1	2 days	£97.00	57
Sperm DNA Fragmentation (SCSA)	SEXT	Semen ¹	1-2 weeks	£258.00	57
Sperm Morphology (Kruger strict criteria)	MRPH	Semen ¹	2 days	£79.00	57
Spinal Muscular Atrophy – SMN1 deletions/duplications	SMA	A 9	10 days	£390.00	116
Sports/Performance Profile	SP0R		5 days	£544.00	139-140
Sputum for Routine Culture	SPU1	SC	2-4 days	£50.00	37
Sputum for TB Culture (AFB)	SPU2	SC	up to 8 weeks	£53.00	37
Squamous Cell Carcinoma	SCC	3	4 days	£171.00	95
SRY (Sex-determining Region Y)	SRY	A 9	2 days	£160.00	116
STD1 M/F STD Quad	STD1	(3) FCRU	2 days	£112.00	61, 70
STD2 M/F STI Profile Plus (Urine and Serology)	STD2	 FCRU (If culture swabs are needed please request separately) 	4 days	£323.00	61, 70
STD3 Female STD Quad (PCR Swab and Serology)	STD3	© PCR	2 days	£112.00	62, 70
STD4 Female STI Profile Plus (PCR Swab and Serology)	STD4	PCR (If culture swabs are needed please request separately)	4 days	£323.00	62, 70

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
STD5 Serology only	STD5	B	4 hours	£123.00	62, 70
STD6 Serology only without HIV	STD6	B	4 hours	£115.00	62, 70
STD8 Vaginitis/BV Profile using culture & PCR SWAB	STD8	PCR/STM	3 days	£95.00	62, 71
STD9 Symptomatic lesion sample using PCR Swab from lesion & PCR SWAB	STD9	2x PCR Swab	7 days	£105.00	62, 71
Steroid Cell Antibody	SCA	B	2 days	£78.00	76
STI Profile: MSM1	MSM1	3/FCRU/PCR Swab Throat/PCR Swab Rectal	2 days	£175.00	62, 72
STI Profile: MSM2	MSM2	3/FCRU/PCR Swab Throat/PCR Swab Rectal	3 days	£361.00	62, 72
Stool for OCP and Culture ^{††}	PENT	RF	2-3 days	£52.00	37
Stool for OVA Cysts & Parasites by PCR	0CP	RF	1 day	£31.00	37
Stool Reducing Substances	STRS	RF ⁷	5 days	£44.00	37
Streptomycin Levels	STRM	(5 days	£139.00	127
Striated/Skeletal Muscle Antibody	STRA	B	2 days	£43.00	76
Strongyloides Antibodies	STGA	B	10 days	£96.00	76
Sulpiride	SULP	B ⁴	4 days	£98.00	127
Superoxide Dismutase Inhibitor	SODI	A / (5 days	£86.00	29
Suppression with steroid, IVIg and intralipin, NK (CD69) cell assay, TH1/TH2 cytokines	NCIT	000 *	Send Mon-Thurs only	£861.00	46, 49
Swab (Ear)	EARS	STM	2-4 days (Culture) 8-9 days (Fungal) – same swab	£50.00	37
Swab for Culture (Any Site)	SWAB†	STM	2-4 days	£50.00	37, 62
Synacthen Stimulation Test	SYNA	By appointment only	1 day	£216.00	125
Synovial Fluid (for microscopy and culture)†††	FLU2	(A) + SC	14 days	£50.00	37
Syphilis by PCR (chancre)	SYPS	PCR	5 days	£122.00	62
Syphilis IgG/IgM	SERJ	B	4 hours	£52.00	62, 76
T Regulatory Cells	25RF	0	3 days	£489.00	48
T3	T3	B	4 hours	£44.00	46
T3 (Reverse)	RT3	B 7,37	10 days	£110.00	46
Tacrolimus/Prograf (FK506)	FK5	A 4	1-2 days	£113.00	127
Taipan Snake Venom Time	TTVT	() 18	1 week	£204.00	33
TB (pleuralfluid)	TBCU	SC	up to 8 weeks	£53.00	37
TB Culture	SPU2	SC	up to 8 weeks	£53.00	37
TB Culture (Urine)	TBUR	3x EMU	up to 8 weeks	£80.00	37
TB Quantiferon®-TB Gold*	TBQ4	Special tubes or 🕕 1	3 days	£96.00	76
TB Slopes – Confirmation and Sensitivity	TBSL	TB slope (LJ medium-green) ⁶	up to 8 weeks	£158.00	37
TDL Tines & Self-collection samples					142-147
Tegretol (Carbamazepine)	CARB	B	4 hours	£52.00	127
Teicoplanin Assay	TEIC	B	5 days	£98.00	125
Temazepam	TEMA	B 4	4 days	£108.00	127

Testicular Autoantibodies TAB ③ 2 days £64.00 7 Testicular Tumour Profile TTP ⑤ 4 hours £108.00 9 Testosterone TEST ⑥ 4 hours £44.00 4 Testosterone (Bioavailable) BTES ⑥ 5 days £194.00 4 Testosterone (Free) FTES ⑥ 3 days £91.00 4 Tetanus Antibody TETA ⑥ 5 days £90.00 76,8 TH1/TH2 Cytokine Profile 1TH2 ⑥ ⑥ Send Mon-Thurs only £304.00 4 TH1/TH2 Cytokine Ratio 6RF ⑥ ⑥ ⑥ ⑥ 1 week £315.00 4 TH1/TH2 Intracellular Cytokine Ratios with IVIG 20RF ⑥ ⑥ ⑥ 1 week £529.00 4 TH1/TH2 Intracellular Cytokine Ratios with IVIG 22RF ⑥ ⑥ 1 week £529.00 4 With Prednisolone 22RF ⑥ ⑥ 1 week £529.00 4
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Testosterone (Free) FTES ⑤ 3 days £91.00 4 Tetanus Antibody TETA ⑥ 5 days £90.00 76, 8 TH1/TH2 Cytokine Profile 1TH2 ᠿ ⊕ ↑ Send Mon-Thurs only £304.00 4 TH1/TH2 Cytokine Ratio 6RF ⊕ ⊕ ↑ 1 week £315.00 4 TH1/TH2 Intracellular Cytokine Ratios with IVIG, Prednisolone 20RF ⊕ ⊕ ↑ 1 week £661.00 4 TH1/TH2 Intracellular Cytokine Ratios with IVIG 21RF ⊕ ⊕ ↑ 1 week £529.00 4 TH1/TH2 Intracellular Cytokine Ratios 22RF ⊕ ⊕ ↑ 1 week £529.00 4
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WIGHT LANDSONING
Thalassaemia Screen HBEL 4 days £85.00 3
Thallium (Blood) THAL (1) 1 week £63.00 15
Thallium (Urine) URTH RU 1 week £63.00 15
Theophylline THEO (3 4 hours £46.00 12
Thiopurine Methyl Transferase TPMT 🛕 5 days £122.00 2
Thrombin Time THR0 € 18 4 hours £27.00 3
Thrombotic Risk Profile PROP ♠ ♠ ⊕ № № № 5 days £690.00 33, 33, 116, 12
Thyroglobulin Abs TGAB (3 1 day £45.00 4
Thyroglobulin Assay TGA 🔋 1 day £78.00 4
Thyroid Abs (incl. Thyroglobulin+Thyroid Peroxidase Abs) THAB 1 day £74.00 47, 7
Thyroid Peroxidase Antibodies/Anti TPO TPEX 6 1 day £45.00 47, 7
Thyroid Profile 1 TF (3) 4 hours £62.00 47, 5
Thyroid Profile 2 TF2 (3) 2 days £149.00 47, 5
Thyroid Profile 3 TF3 3 4 hours £88.00 47, 5
Thyroxine (T4) T4 (3) 4 hours £40.00 4
Thyroxine Binding Globulin TBG (Frozen) 10 days £103.00 4
Timothy Grass Components ZZ19 3 2 days £245.00 13
Tissue for culture TISS Tissue sample up to 14 days £50.00 3
Tissue Polypeptide Antigen TPA 3 1 week £147.00 2
Tissue Transglutaminase IgA (Coeliac) TAA 6 2 days £53.00 7
Tissue Transglutaminase IgG TAAG 3 5 days £63.00 7
Tobramycin Assay (Provide Clinical Details) TOBR 6 3 days £175.00 12
Toluene (Blood) TOL J 10 days £120.00 15
Toluene (Urine) UTOL RU 10 days £155.00 15
Topiramate (Topamax) TOPI 34 4 days £93.00 12
Torch Screen TORC 3 2 days £161.00 76, 93-9
Total Acid Phosphatase APT 3 5 days £42.00 2

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Total Bile Acid/Bile Salts	BILS	В	1 week	£68.00	29
Total IgE	IGE	B	1 day	£48.00	29, 76, 130
Total Immune Function Evaluation	TIE	A or Chex+(3) 5,10	7 days	£300.00	76
Total Immunoglobulin E	IGE	В	1 day	£48.00	76
Toxocara Antibodies (IgG)	TFAT	B 9	5 days	£66.00	93
Toxoplasma Antibodies (IgG+IgM)	TFAM	B 9	4 hours	£66.00	81, 93
Toxoplasma Antibody Full Evaluation (IgM, Dye Test, IgG Avidity)	TDYE	B 9	10 days	£121.00	93
Toxoplasma by PCR	TXAG	A	5 days	£139.00	93
ТРРА	TPPA	B	2 days	£32.00	62, 76
Trace Metal (Blood) Profile	TRAC	ABO	7-10 days	£254.00	140, 151
Transferrin	TRAN	3	1 day	£69.00	29
Transferrin Electrophoresis	TREL	B	2 weeks	£224.00	29
Trichinella Serology	TRIC	B	5 days	£83.00	93
Trichloracetic Acid (Urine)	UTCA	RU	5 days	£117.00	152
Trichomonas vaginalis	TVPC	TPV	2 days	£75.00	156
Trichomonas vaginalis by PCR	TVPC	FCRU/PCR/TPV	2 days	£75.00	62
Triglycerides	TRI	B	4 hours	£26.00	29
Trimethylaminuria (Fish Odour Syndrome)	FOS	PU	6 weeks	£316.00	29
Trimipramine	TRIM	A	5 days	£77.00	127
Tropical Screen	TR0P	B B 9,14	10 days	£186.00	81-82
Tropomyosins	ZZ31	B	2 days	£83.00	137
Troponin T (High sensitive)	TROT	B	4 hours	£87.00	29
Trypanosome (Chagas) Antibodies	CHGA	B 9,14	10 days	£122.00	93
Tryptase	STRY	B	2 days	£127.00	29, 130
TSH	TSH	B	4 hours	£44.00	47
TSH-Receptor Antibodies	TSI	B	4 days	£134.00	47, 76
Tularaemia Antibodies	TULA	B 14	5 days	£86.00	93
Tumour Necrosis Factor – Alpha	TNF	(Frozen) ⁴	2 weeks	£150.00	29
Uni Parental Disomy (UPD) – parents and child – specify chromosome	Specify type	A 9,12	5 days	£470.00	116
Urate (Uric acid)	UA	<u> </u>	4 hours	£26.00	29
Urea	UREA	<u> </u>	4 hours	£26.00	29
Urea (Urine)	UURE	CU	4 hours	£26.00	29
Urea and Electrolytes	U/E	<u> </u>	4 hours	£45.00	29-30
Urea Electrolytes (Urine)	UELE	CU	4 hours	£34.00	29
Ureaplasma/Mycoplasma Culture****					37
Ureaplasma urealyticum by PCR	UGEN	FCRU/PCR/TPV	2 days	£75.00	62, 156
Uric Acid (Serum)	UA	B	4 hours	£26.00	29
Uric Acid (Urine)	UURI	CU	4 hours	£35.00	29
Urinary Methyl Histamine	UHIT	RU (Frozen)	2 weeks	£104.00	76
Urine (Microscopy Only)	UMIC	RU	1 day	£41.00	37
Urine Cytology (Urine cytology containers available from TDL Supplies)	URCY	Urine (30mls) ²¹	2 days	£120.00	161

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Urine EtG (Ethyl glucuronide)	ETG	RU	1 week	£91.00	149
Urine for Microscopy and Culture ****	UCEM	MSU	1-2 days	£52.00	37
Urine Free Light Chains	UFLC	RU	1 week	£318.00	29
Urine Organic Acids	UORG	RU (Frozen)	3 weeks	£244.00	29
Urine Steroid Screen (Steroid Hormones)	USTE	CU or RU ⁹	2 weeks	£684.00	29
Urine Sugar Chromatography	UCR0	RU (Frozen)	3 weeks	£149.00	29
Urobilinogen (Urine)	UUR0	RU	1 day	£22.00	29
Urticaria Test (Histamine Releasing)	CURT	3	10-14 days	£138.00	76
Vaginitis/BV Profile using culture & PCR SWAB	STD8	PCR/STM	3 days	£95.00	62, 71
Valium (Diazepam)	DIAZ	A	7 days	£88.00	127
Valproic Acid (Epilim)	VALP	3	4 hours	£46.00	127
Vancomycin Hydrochloride	VANC	3	4 hours	£77.00	125
Varicella Zoster – DNA	VZPC	A	5 days	£231.00	93
Varicella Zoster Antibodies (IgG)	VZOS	3	1 day	£64.00	85, 93
Varicella Zoster Antibodies (IgM)	VZOM	B	1 day	£64.00	85, 93
Vascular Endothelial Growth Factor	VEGF	B	2 months	£184.00	76
VDRL (RPR)	RPR	3	2 days	£32.00	76
Venom Components	ZZ33	B	2 days	£132.00	137
Very Long Chain Fatty Acids	VLCF	(Frozen) 9	4-6 weeks	£259.00	29
Vigabatrin (Sabril)	VIGA	A	10 days	£93.00	127
Viral Antibody Screen	VIRA	88	2 days	£153.00	93-94
Viral Eye by PCR	VPE	PCR	3 days	£103.00	93-94
Viral Respiratory RNA Screen by PCR	VPR	PCR or as specified	2 days	£124.00	93-94
Viral Skin/Mucosa by PCR	VPSK	PCR	2 days	£93.00	93-94
Viscosity (Plasma)	VISC	A 4	3 days	£48.00	33
Vitamin A (Retinol)	VITA	B	5 days	£129.00	140
Vitamin B (Functional)	FUNC	A A or H ¹³	5 days	£119.00	140
Vitamin B Profile	VBP	AAB	5 days	£386.00	139-140
Vitamin B1 (Thiamine)	VIT1	<u> </u>	5 days	£129.00	140
Vitamin B2 (Riboflavin)	VIB2	A	5 days	£129.00	140
Vitamin B3 (Nicotinamide)	VIB3	<u> </u>	5 days	£129.00	140
Vitamin B5 (Pantothenic Acid)	VB5S	B	5 days	£112.00	140
Vitamin B6 (Pyridoxine)	VITB	A	5 days	£129.00	140
Vitamin B8 (Biotin)	BIOS	<u> </u>	5 days	£125.00	140
Vitamin B9 (Folic acid) – Red cell	RBCF	A	2 days	£42.00	141
Vitamin B9 (Folic acid) – Serum	F0LA	В	1 day	£42.00	141
Vitamin B12 (Active)	B12	<u> </u>	1 day	£56.00	29, 140
Vitamin B12 (Active)/Red Cell Folate	B12F	AB	2 days	£90.00	29, 140
Vitamin B12 (Total)	TB12	B	1 day	£46.00	29
Vitamin C (Active)	VITC	(Frozen) ⁷	5 days	£129.00	141
Vitamin D (1, 25 Dihydroxy)	D3	<u> </u>	5-8 days	£120.00	141
Vitamin D (25-OH)	VITD	В	4 hours	£67.00	29, 141
Vitamin E (Alpha Tocopherol)	VITE	<u> </u>	5 days	£135.00	141

TEST	CODE	SAMPLE REQS	TAT	PRICE	PAGE
Vitamin K (Nutritional)	VKN	B 13	5 days	£73.00	141
Vitamin K (With PIVKA II)	VITK	B 13	10 days	£314.00	32
Vitamin Profile 1	VITS	A B B ⁷	5 days	£316.00	139, 141
Vitamin Profile 2	VIT2	A A B B 7,13	5 days	£454.00	139, 141
VLDL Cholesterol	VLDL	B 13	1 week	£69.00	29
VMA	UVMA	PU ¹	5 days	£63.00	29
Voltage Gated Calcium Channel Antibodies	CCAB	В	3 weeks	£218.00	76
Voltage Gated Potassium Channel Antibodies	VPCA	B	3 weeks	£159.00	76
Von Willebrand Profile	FVWF	() () () 4,12	5 days	£186.00	33, 35
Von Willebrands Multimers	VWM	O O O 18	3 months	£515.00	33
Wall Pellitory Components	ZZ20	B	2 days	£56.00	137
Walnut Components	ZZ34	B	2 days	£83.00	137
West Nile Virus Abs	WNV	В	2 weeks	£198.00	93
Wheat Components	ZZ21	В	2 days	£111.00	137
Whooping Cough (Pertussis) Antibodies	PERS	В	5 days	£103.00	93
Whooping Cough (Pertussis) by PCR	PERP	Prenasal (posterior nasopharynx) swab	5 days	£141.00	93
Wolf-Hirschhorn Syndrome – BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/(A) (1)9	5-15 days	£575.00	117
Wolf-Hirschhorn Syndrome – BOBs only	PBOB	CVS/AF/(A)9	5 days	£205.00	117
Xanthine – Blood	XANB	A	2 weeks	00.883	152
Xylene – Urine	UXYL	RU ³⁰	2 weeks	£87.00	152
Xylose Tolerance Test	XTT	J ¹	7 days	£96.00	140
Y chromosome microdeletions - AZFa + AZFb + AZFc + SRY	YDEL	A 9	5 days	£200.00	117
Yellow Fever Antibodies	YELL	B 9,14	10 days	£145.00	76
Yersinia Antibodies	YERS	B	4 days	£147.00	93
Zika Abs IgM and IgG – Antibody detection from 15 days	ZKAB	6	5 days	£104.00	76, 79, 81, 93
Zika RT PCR – Window of detection from 1-7 days from onset of symptoms	ZIKA	3	5-7 days	£185.00	79, 81
Zika RT PCR – Window of detection from 1-14 days from onset of symptoms	ZIKU	RU	5-7 days	£185.00	79, 81
Zika RNA by PCR in Semen	ZIKS	Semen	5 days	£258.00	79, 81, 93
Zinc (Serum/Plasma)	ZINC	K	1 day	£41.00	140, 151
Zinc (Urine)	URZN	CU	5 days	£44.00	140, 152
Zinc (Whole Blood)	RBCZ	(A) or (1)	5 days	£43.00	140
Zinc Protoporphyrin	ZNPR	A 13	5 days	£69.00	152
Zygosity testing – comparative DNA profile	DNAC	(From each twin and both parents) ⁹	5 days	£525.00	117

TDL Referral Laboratories

For certain specialist tests TDL has developed a selected network of TDL Group and Reference Laboratories. These Group or specialist laboratories can be identified by a code assigned to reports. The quality of these laboratories is recognised by UKAS, or similar accrediting bodies for the laboratories outside the LIK.

Addenbrooke's Hospital - BGU and Immunology

Affinity Biomarker Labs

Alder Hey Children's NHS Foundation Trust – Biochemistry Department

Analytical Services International Ltd, St George's University of London – Forensic Toxicology Service

Animal and Plant Health Agency - Veterinary labs

Antenatal Screening Service, Wolfson Institute of Preventive Medicine, Barts and The London School of Medicine and Dentistry

Biodesix, Inc.

Biolab Medical Unit

Bioscientia

Birmingham Children's Hospital NHS Foundation Trust – Clinical Chemistry

Brucella Reference Unit – Liverpool Clinical Laboratories, Royal Liverpool and Broadgreen Hospital

Cambridge Clinical Laboratory

Cambridge Life Sciences

Cambridge Nutritional Science Ltd

Cardiff and Vale University Health Board – The Analytical Toxicology Department

Cardiff and Vale University Health Board – University Hospital of Wales Laboratory – Medical immunology

Cerba

Chelsea and Westminister Hospital NHS Foundation Trust

CNC Forensic Toxicology Service LTD

Douglass Hanly Moir Pathology

Epsom and St Helier University Hospital NHS Trust – Biochemistry Department

Epsom and St Helier University Hospital NHS Trust – Immunology Department

Eurofins - Biomnis, France

Great Ormond Street Hospital – Department of Chemical Pathology

Great Ormond Street Hospital – Enzyme Unit, Chemical Pathology

Great Ormond Street Hospital - Immunology Department

Great Ormond Street Hospital - Neurometabolic Unit

Guildford RSCH Trace Element Laboratory, SAS Trace Element Centre HCA Healthcare UK - HCA Laboratories

Health & Safety Laboratory

HFL Sport Science

Homerton University Hospital – Department of Clinical Biochemistry

Igenomix UK

Imperial College Healthcare NHS Trust – Charing Cross Hospital, Chemical Pathology Department

Imperial College Healthcare NHS Trust –
Charing Cross Hospital, Infection and Immunity Department

Imperial College Healthcare NHS Trust – Charing Cross Hospital, Medical Oncology

Imperial College Healthcare NHS Trust – Hammersmith Hospital, Molecular Endocrinology

Imperial College Healthcare NHS Trust, St Mary's Hospital – Virology Department

Independent Histopathology Services

Institute of Aquaculture – University of Stirling Institute of Neurology – Neurogenetics Unit

Instituto Bernabeu Biotech

King's College Hospital – HMDC Laboratory for Molecular Haemato-Oncology

Labor Augsburg MVZ GmbH

Latis Scientific

London School of Hygiene & Tropical Medicine – Diagnostic Parasitology Lab

Matrix Diagnostics

Mayo Clinic Laboratories

Meningococcal reference unit (Men RU)

Manchester – Manchester Royal Infirmary

Microbiological Solutions Ltd

Micropathology Ltd

National Blood Service – Colindale, Red Cell Immuno Haematology Department

NHS Blood and Transplant - Birmingham

NHS Blood and Transplant – H & I Laboratory

NHS Blood and Transplant - Tooting

Norfolk and Norwich University Hospital NHS Foundation Trust – SAS Metabolic Bone Laboratory

Nutritional Analytical Service - University of Stirling

TDL Referral Laboratories

Oxford University Hospital NHS Foundation Trust – Churchill Hospital

Pathcare

PHE, Brucella Reference Unit, Royal Liverpool and Broadgreen Hospital

PHE - Bacteriology Reference Department (BRD), Colindale

PHE – Bacteriology Reference Department (BRD) – Legionella Reference Laboratory, Colindale

PHE – Respiratory and Vaccine Preventable Bacteria Reference Unit (RVPBRU) – Enteric and Respiratory Virus Lab. Colindale

PHE - Virus Reference Department (VRD) - Colindale

PHE Mycology Reference Laboratory – PHE South West Laboratory, Southmead Hospital, Bristol

PHE National Mycobacterium Reference Service National Infection Service, Colindale

PHE Rare and imported pathogens laboratory – Porton Down

Queens University Hospital, Belfast – Institute of Clinical Science

Radboud University Nijmegen Medical Center

Randox Health - London

Reflab - Copenhagen

Rosalind Franklin University

Royal Berkshire Hospital NHS Foundation Trust – Clinical Biochemistry

Royal Surrey County Hospital - SAS Peptide Hormone Section

Sandwell and West Birmingham NHS Trust – City Hospital Birmingham, Clinical Biochemistry Department

Sandwell and West Birmingham NHS Trust – City Hospital Birmingham, Toxicology Department

SCSA Diagnostics

Sheffield Children's NHS Trust - Clinical Chemistry

Sheffield Teaching Hospital NSH Foundation Trust – Northern General Hospital, Protein Reference Laboratory

Sheffield Teaching Hospital NSH Foundation Trust – Protein Reference Laboratory Unit and Immunology Department

Southmead Hospital – Antimicrobial Reference Laboratory, Bristol

St George's University Hospital NHS Foundation Trust – Cell Marker Department

SYNLAB Budapest Diagnostic Center, Genoid Molecular Diagnostic Laboratory

SYNLAB Laboratory Service - Abergavenny

The European Laboratory of Nutrients

The Leeds Teaching Hospital – Leeds General Infirmary

The Leeds Teaching Hospital NHS Trust – Endocrinology Laboratory (including SAS Steroid Centre), Department of Specialist Laboratory Medicine, ST James University Hospital

The Leeds Teaching Hospitals NHS Trust – Mycology Reference Centre

The Newcastle upon Tyne Hospitals - Royal Victoria Infirmary

The Royal Marsden Hospital

- Department of Haematology/Oncology

Toxoplasma Reference Unit, Public Health Wales Microbiology ABM, Singleton Hospital – Swansea

Trace Laboratories Ltd

UCL Great Ormond Street Institute of Child Health

UCL Queen Square Institute of Neurology – Department of Neuroimmunology

UCL Queen Square Institute of Neurology – Neurometabolic Department

University Hospital Birmingham NHS Foundation Trust – Heartlands Hospital

University Hospital of Wales - Immunology Department

Viapath – Guy's Hospital, Biochemistry Genetics Laboratory

Viapath - King's College Hospital, Clinical Biochemistry

Viapath - St Thomas' Hospital Haemophilia Centre

Viapath – St Thomas' Hospital Immunohistology

Viapath – St Thomas' Hospital Purine Research Laboratory West Yorkshire Analytical Services

TDL Genetics Referral Laboratories

All Wales Medical Genetics Service

Anthony Nolan, Histocompatability and Immunogenetics

Asper Biotech

Bioscientia GmBH

Bristol Genetics Laboratory (North Bristol NHS Trust)

CentoGene

DiaGenom GmbH

Douglass Hanly Moir Pathology

East Scotland Regional Genetics Service (NHS Tayside)

Exeter Clinical Laboratory –

Department of Molecular Genetics

Fulgent Diagnostics

Institute of Neurology, Queen's Square

International Blood Group Reference Laboratory

London South East Genetics Service

Medical Genetics Laboratory – Central Manchester University Hospitals NHS Foundation Trust

Medical Neurogenetics Laboratory LLC

Micropathology Ltd

Molecular Genetics Laboratory – Liverpool's Women NHS Foundation Trust

Molecular Vision Laboratory

Newcastle Mitochondrial NGC Diagnostic Service

North East Thames Regional Genetic Service

North West London Pathology

North West Thames Regional Genetic Service

Northern Genetics Service

Oxford Genetics Laboratory – Oxford University Hospitals

Prevention Genetics

Progenika Biopharma Grifols

Protein Reference Unit & Immunology Department – Sheffield Protein Unit

Purine Research Laboratory - St Thomas' Hospital

Royal Marsden - Haemato-Oncology Unit

Sheffield Diagnostic Genetics Service

SIHMDS – Cytogenetics Laboratory, Great Ormond Street Hospital

South East Scotland Genetics Service (NHS Lothian)

South West Thames Regional Genetics Service

SYNLAB Budapest Diag Center

The Leeds Genetics Laboratory

Viapath Analytics LLP

Wessex Region Genetics Service

West Midlands Regional Genetics Laboratory

West of Scotland Genetic Service (NHS Greater Glasgow and Clyde)

The definitions which shall apply to these Terms and Conditions are set out in clause 19.

1 THE SERVICES

- 1.1 These Terms and Conditions shall apply to any Services that TDL provides to the Client, unless those Services are the subject of a separate written agreement signed by TDL and the Client. These Terms and Conditions apply to the exclusion of any other terms presented by the Client or implied by custom or course of dealing.
- 1.2 By submitting a Sample to TDL the Client offers to be bound by these Terms and Conditions. TDL shall be deemed to accept that offer and the Agreement shall take effect when TDL collects the Sample from the Client (if TDL has arranged to do so), or when TDL logs the Sample into its laboratory information management system (in any other case). Any request for add-on Tests (as described in the Laboratory Guide) constitutes a request for further Services under that Agreement, which TDL may accept or decline.
- 1.3 TDL warrants to the Client that:-
- 1.3.1 its Services will be provided with reasonable skill and care and in accordance with the UKAS medical laboratory accreditation standard (ISO 15189); and
- 1.3.2 the people providing the Services will be suitably skilled and experienced.
- 1.4 As part of its Services TDL will, on request, arrange for collection of Samples from locations within London (being for these purposes the area within the M25 motorway). Such collection service is included within the price of the Test unless otherwise notified. Collection of Samples from locations outside the M25 is by special arrangement, and may incur an additional charge. Where collection by TDL has not been requested and agreed, the Client will be responsible, at its own cost, for the transport of Samples to TDL.
- 1.5 The Client acknowledges that, except as expressly provided in this Agreement, TDL gives no warranties or representations to the Client (whether express or implied) in respect of the Services. In particular, whilst every effort is made to achieve the turn-around times quoted by TDL for the conduct of Tests, no warranty or guarantee is given that such turn-around times will be achieved in any particular instance.
- 1.6 The Client shall provide TDL with the information indicated in the Pathology Request Form and Laboratory Guide for the relevant Services, and all other clinical information that TDL may reasonably be expected to require concerning the Samples and the relevant patient to enable TDL to provide the Services. The Client shall provide that information by the method indicated in the Laboratory Guide, unless TDL agrees an alternative method in writing with the Client.

- 7 The Client shall ensure that the Sample is collected from the patient, packaged, labelled, and submitted to TDL in each case in accordance with the relevant instructions in the Laboratory Guide. The Laboratory Guide sets out criteria that may render a Sample unsuitable for Testing. If any of those criteria apply, or if TDL considers that the Sample is otherwise unsuitable for Testing or TDL is unable to conduct the Test then TDL shall not be required to carry out the Test and shall be entitled to dispose of the Sample.
- 1.8 TDL will accept no responsibility for any error or defect in the Services arising from inaccuracies or omissions in the information provided by the Client or from any failure to follow the instructions in the Laboratory Guide. The Client shall indemnify and hold harmless TDL and the members of the TDL Group and their respective directors, officers, employees and agents, in respect of all liabilities, costs, claims, loss, damage, demands, action and expenses (to include any settlements or ex-gratia payments and reasonable legal and expert costs and expenses) arising directly or indirectly from the Client's breach of clauses 1.6 or 1.7.
- 1.9 Upon completion of a Test the Sample relating thereto may be destroyed or disposed of by TDL unless otherwise agreed.

2 PRICE AND PAYMENT TERMS

- 2.1 The fees payable by the Client for the conduct of the Services shall, unless otherwise agreed in writing, be the prices specified in TDL's Laboratory Guide for the applicable Tests or other Services at the time those Tests or Services are requested.
- 2.2 As at the date of these Terms and Conditions VAT is not payable on TDL's Services. If the Services subsequently become subject to VAT, this will be charged in addition at the applicable rate.
- 2.3 Invoices are normally issued on a monthly basis, but TDL reserves the right to issue them more frequently. The client shall pay TDL's invoices under the Agreement within 30 days of the date of the invoice, without any deduction or set off. At TDL's option interest may be charged on late payment at the statutory rate prescribed from time to time by regulations under the Late Payments of Commercial Debts (Interest) Act 1998. Invoices paid from outside the UK must be paid by either direct bank transfer or by cheque drawn on a UK branch. All payments shall be made in pounds sterling.
- 2.4 Without affecting any of its other rights, TDL may suspend provision of the Services if the Client fails to pay TDL's invoice in accordance with clause 2.3.

3 CONFIDENTIALITY

- 3.1 TDL agrees that it will hold and maintain the confidence of:
- 3.1.1 all information of a confidential nature which is received by TDL from the Client or its patients in connection with the Services: and
- 3.1.2 all Test results, invoices and other information of a confidential nature issued by TDL to the Client or its patients in connection with the Services, and, save with the Client's consent or as otherwise permitted under this Agreement, will not disclose such information other than to its professional staff, independent consultants and/or persons to whom it has delegated the performance of the Services and who require the information for such purpose. Where TDL has been provided with the details of a patient's private medical insurance in connection with the Services, TDL shall be entitled to assume (and the Client so warrants) that both the Client and the patient consent to the disclosure of information relating to that patient to the insurer concerned.
- 3.2 The restrictions in clause 3.1 shall not apply to information which: (i) was in TDL's possession prior to disclosure by the Client; or (ii) is now or hereafter comes into the public domain other than by default of TDL; or (iii) was lawfully received by TDL from a third party acting in good faith having a right of further disclosure; or (iv) is required by law to be disclosed by TDL; or (v) which is required by a regulatory or accreditation body to be disclosed to it for the purpose of regulating or accrediting the TDL Group.

4 LIABILITY AND INDEMNITY

- 4.1 The Client warrants and represents that it will:
- 4.1.1 comply with all relevant laws, regulations and guidelines applicable to the jurisdiction in which it is situated (including any applicable data protection laws) for the collection of the Samples from the patients, the packaging and labelling of the Samples, and their shipment to TDL (which may include conduct of the tests and shipment outside of the EEA);
- 4.1.2 obtain all consents and permissions required (whether by law (including under the Data Protection Legislation), good medical practice or otherwise) in order to permit the conduct of the Tests on the Samples and the use of the Protected Data as contemplated in these Terms and Conditions:
- 4.1.3 provide to TDL confirmation that it has complied with all relevant laws applicable to the jurisdiction in which it is situated (including any applicable data protection laws) for the collection of the Samples which they are referring for the Tests and their shipment to TDL and where necessary on to an overseas testing laboratory;

- 4.1.4 shall indemnify and hold harmless TDL and the members of the TDL Group and their respective directors, officers, employees and agents, in respect of all liabilities, costs, claims, loss, damage, demands, action and expenses (to include any settlements or ex-gratia payments and reasonable legal and expert costs and expenses) arising directly or indirectly from any breach of this clause 4.1.
- 4.2 TDL and the members of the TDL Group shall have no liability arising out of or in connection with this Agreement or the Services (whether in contract (including under any indemnity), tort (including negligence), misrepresentation, breach of statutory duty or otherwise) for any:
- 4.2.1 loss of profit or revenue;
- 4.2.2 loss of anticipated savings;
- 4.2.3 loss of reputation or goodwill; or
- 4.2.4 indirect, special or consequential loss.
- 4.3 To the extent not covered by any other limitations the maximum aggregate liability of TDL and the members of the TDL Group to the Client under or in connection with this Agreement, whether arising in contract (including under any indemnity), tort (including negligence), misrepresentation, breach of statutory duty or otherwise, shall be £2,000,000 less any sums paid by TDL or a TDL Group member to any patient of the Client or other third party in satisfaction of a liability arising out of the same facts and circumstances.
- 4.4 The limitations and exclusions in these Terms and Conditions shall only apply where permitted under applicable law.

5 THIRD PARTIES

For the purposes of the Contracts (Rights of Third Parties) Act 1999 and notwithstanding any other provision of this Agreement these Terms and Conditions are not intended to, and do not, give any person who is not a party to it any right to enforce any of the provisions, except that TDL Group members that are third parties shall be entitled to enforce any provisions that confer a benefit on them.

6 FORCE MAJEURE

If the performance of this Agreement or any obligation under it (except for an obligation to pay) is prevented, restricted or interfered with by reason of circumstances beyond the reasonable control of that party obliged to perform it (which shall include, without limitation, flood, fire, storm, strike, lockout, sabotage, failure of machinery, terrorist act, civil commotion, government intervention, and/or failure of subcontractors) (a 'Force Majeure Event'), the party so affected shall (upon giving prompt notice thereof to the other party) be excused from any failure or delay in performance, and the time for performance shall be extended by an amount of time equal to the duration of the Force Majeure Event, provided always that the party so affected shall use all reasonable endeavours to avoid or remove the causes of non-performance and shall continue performance as expeditiously as possible as soon as such causes have been removed.

7 DATA PROCESSOR AND DATA CONTROLLER

- 7.1 Insofar as TDL processes Protected Data on behalf of the Client in providing the Services the parties agree that the Client shall be the Data Controller and TDL shall be the Data Processor and TDL shall process the Protected Data in compliance with the obligations of Data Processors under Data Protection Laws and in accordance with the terms of clauses 8 to 15. Clause 16 sets out circumstances where TDL processes Protected Data on its own behalf as Data Controller.
- 7.2 The Client warrants, represents and undertakes, that:
- 7.2.1 in connection with the Protected Data it has complied and shall continue to comply in all respects with Data Protection Laws, including in terms of its collection, storage and processing (which shall include the Client providing all of the required fair processing information to, and obtaining all necessary consents from, Data Subjects): and
- 7.2.2 all instructions given by it to TDL in respect of Personal Data shall at all times be in accordance with Data Protection Laws.

8 INSTRUCTIONS AND DETAILS OF PROCESSING

- 8.1 Insofar as TDL processes Protected Data on behalf of the Client:
- 8.1.1 unless required to do otherwise by Applicable Law, TDL shall (and shall take steps to ensure each person acting under its authority shall) process the Protected Data only on and in accordance with the Client's documented instructions as set out in the request for Services pursuant to the Terms & Conditions and in the Annex (the Processing Instructions);
- 8.1.2 if Applicable Law requires it to process Protected
 Data other than in accordance with the Processing
 Instructions, TDL shall notify the Client of any such
 requirement before processing the Protected Data
 (unless Applicable Law prohibits such information
 on important grounds of public interest); and
- 8.1.3 TDL shall promptly inform the Client if TDL becomes aware of a Processing Instruction that, in TDL's opinion, infringes Data Protection Laws, provided that:

 (a) this shall be without prejudice to clauses 7.2; and
 (b) to the maximum extent permitted by Applicable Law, TDL shall have no liability howsoever arising (whether in contract (including any indemnity), tort (including negligence) or otherwise) for any losses, costs, expenses or liabilities (including any Data Protection Losses) arising from or in connection with any processing in accordance with the Client's Processing Instructions following the Client's receipt of any notice pursuant to this clause 8.1.3.

9 TECHNICAL AND ORGANISATIONAL MEASURES

In relation to the processing of the Protected Data, TDL shall implement and maintain, at its cost and expense, appropriate technical and organisational measures to ensure for the Protected Data a level of security appropriate to the risks presented by the processing, taking into account the state of the art, the cost of implementation and the nature, scope, context and purpose of the processing of the Protected Data as well as the risk of varying likelihood and severity of the rights and freedoms of natural persons.

10 USING STAFF AND OTHER PROCESSORS

10.1 Insofar as TDL processes Protected Data on behalf of the Client, TDL shall not engage any Data Processor to carry out that processing (a 'Sub-Processor') without the Client's authorisation of that specific Sub-Processor. The Client shall not unreasonably withhold, condition or delay such consent. By accepting these Terms and Conditions the Client authorises the appointment of the Authorised Sub-Processors.

- 10.2 TDL shall prior to the relevant Sub-Processor carrying out any processing activities in respect of the Protected Data, appoint each Sub-Processor ensure that each of its Sub-Processors under a written contract containing materially the same obligations as clauses 8 to 15 (inclusive), that is enforceable by TDL;
- 10.3 TDL shall ensure that all persons authorised to process Protected Data are subject to a binding obligation to keep the Protected Data confidential (except where disclosure is required in accordance with Applicable Law, in which case TDL shall, where practicable and not prohibited by Applicable Law, notify the Client of any such requirement before such disclosure).

11 ASSISTANCE WITH THE CLIENT'S COMPLIANCE AND DATA SUBJECT RIGHTS

- 11.1 Taking into account the nature of the processing TDL shall, at its own cost and expense implement and maintain reasonable measures to assist the Client to respond to the Data Subject Requests relating to the Protected Data that TDL processes on the Client's behalf.
- 11.2 TDL shall refer all Data Subject Requests it receives to the Client promptly, and in any event within five Business Days of receipt of the request.
- 11.3 TDL shall provide such reasonable assistance as the Client reasonably requires (taking into account the nature of processing and the information available to TDL) to the Client in ensuring compliance with the Client's obligations under Data Protection Laws with respect to:
- 11.3.1 security of processing;
- 11.3.2 data protection impact assessments (as such term is defined in Data Protection Laws);
- 11.3.3 prior consultation with a Supervisory Authority regarding high risk processing; and
- 11.3.4 notifications to the Supervisory Authority and/or communications to Data Subjects by the Client in response to any Personal Data Breach,

provided the Client shall pay TDL's charges for providing the assistance in this clause 11.3, such charges to be calculated on a time and materials basis at TDL's applicable daily or hourly rates in force from time to time.

12 INTERNATIONAL DATA TRANSFERS

The Client agrees that TDL may transfer Protected Data to countries outside the European Economic Area (EEA) for the purpose of providing the Services, provided all transfers by TDL of Protected Data to such recipients are in accordance with such safeguards or other mechanism(s) for transfers of Personal Data as may be permitted under Data Protection Laws from time to time. The Client agrees that TDL may implement such safeguards by entering into standard data protection clauses authorised under the Data Protection Laws, which TDL may do as agent on behalf of the Client. The provisions of clauses 8 to 15 (inclusive) shall constitute the Client's instructions with respect to transfers in accordance with clause 8.1.

13 RECORDS, INFORMATION AND AUDIT

- 13.1 TDL shall maintain, in accordance with Data Protection Laws binding on TDL, written records of all categories of processing activities carried out on behalf of the Client.
- 13.2 TDL shall, in accordance with Data Protection Laws, make available to the Client such information as is reasonably necessary to demonstrate TDL's compliance with its obligations as a Data Processor under these Terms and Conditions and the Data Protection Laws, and allow for and contribute to audits, including inspections, by the Client (or another auditor mandated by the Client) for this purpose, subject to the Client:
- 13.2.1 giving TDL reasonable prior notice of such information request, audit and/or inspection being required by the Client:
- 13.2.2 ensuring that all information obtained or generated by the Client or its auditor(s) in connection with such information requests, inspections and audits is kept strictly confidential (save for disclosure to the Supervisory Authority or as otherwise required by Applicable Law):
- 13.2.3 ensuring that such audit or inspection is undertaken during normal business hours, with minimal disruption to TDL's business, the Sub-Processors' business and the business of other customers of TDL; and
- 13.2.4 paying TDL's reasonable costs for assisting with the provision of information and allowing for and contributing to inspections and audits.

14 BREACH NOTIFICATION

- 14.1 In respect of any Personal Data Breach involving Protected Data that TDL processes on behalf of the Client, TDL shall, without undue delay:
- 14.1.1 notify the Client of the Personal Data Breach; and
- 14.1.2 provide the Client with details of the Personal Data Breach.

15 DELETION OR RETURN OF PROTECTED DATA AND COPIES

TDL shall, at the Client's written request, either delete or return all of the Protected Data to the Client in such form as the Client reasonably requests within a reasonable time after the end of the provision of the relevant Services related to processing; and delete existing copies (unless storage of any data is required by Applicable Law and, if so, TDL shall inform the Client of any such requirement), except in the case of Protected Data that TDL processes as a Data Controller as set out in clause 16.

16 PROTECTED DATA THAT TDL PROCESSES AS A DATA CONTROLLER

- 16.1 TDL may retain and submit to Public Health England or another Health Authority in the United Kingdom such extracts from the Protected Data as are required for the purposes of a Public Health Programme operated by that Health Authority (Public Health Data).
- 16.2 TDL may retain such copies of the Protected Data and such records of processing in connection with the Services (the Processing Records) as TDL requires to maintain its accreditation with UKAS and as required by the Royal College of Pathologists (in accordance with its retention and storage of pathological records and specimens quidelines).
- 16.3 The parties acknowledge and agree that TDL processes the Processing Records and the Public Health Data on its own behalf and shall be responsible for the Processing Records and the Public Health Data as a Data Controller. TDL shall ensure that it's processing of the Processing Records and the Public Health Data is in accordance with the Data Protection Laws subject to the terms of this Agreement.
- 16.4 Where TDL processes Protected Data to provide Harmony® Non-Invasive Prenatal Tests, TDL does so as a Data Controller. TDL shall ensure that such processing complies with the Data Protection Laws.

17 TERMINATION

- 17.1 Upon termination of this Agreement for any reason TDL may submit its invoice for, and the Client shall pay, the fees in relation to any Services performed but not yet invoiced at the date of termination.
- 17.2 Termination of the Agreement shall not affect any term of the Agreement that expressly or by implication is intended to survive termination, including clauses 4 and 16.
- 17.3 Termination of this Agreement shall not affect the rights and liabilities of each party accrued at the date of termination.

18 GENERAL

- 18.1 Dispute resolution
- 18.1.1 If any dispute arises relating to this Agreement or any breach or alleged breach of this Agreement, the parties shall make a good faith effort to resolve such dispute without recourse to legal proceedings. If, notwithstanding such good faith efforts, the dispute is not resolved either party may submit the dispute to the jurisdiction of the English Courts.
- 18.1.2 Except to the extent clearly prevented by the area of dispute, the parties will continue to perform their respective obligations under this Agreement while such dispute is being resolved.

18.2 Variation

- 18.2.1 TDL may amend these Terms and Conditions by updating the Laboratory Guide and providing the Client with a copy of the update or publishing it on TDL's website. Such amendments shall only apply to Services that the Client requests after the date of the update, and the Client shall be deemed to accept those amendments by requesting Services after that date.
- 18.2.2 Except as set out in clause 18.2.1 any amendments to this Agreement shall not be effective unless in writing and signed by an authorised signatory on behalf of each of the parties. The terms of this Agreement may be varied by agreement of the parties but without the consent of any third party whether or not the rights of such third party are affected by such variation. The Client shall not unreasonably withhold, delay or condition its agreement to any variation to this Agreement requested by TDL in order to ensure the Services and TDL (and each Sub-Processor) can comply with any change in Applicable Laws.

18.3 Rights and waiver

All rights granted to either of the parties shall be cumulative and not exhaustive of any rights and remedies provided by law. The failure of either party to enforce (or delay in enforcing) at any time for any period any one or more of the terms of this Agreement shall not be a waiver of such term or of the right of such party at any time subsequently to enforce all the terms of this Agreement.

18.4 Severability

If any provision of this Agreement is or becomes invalid, illegal or unenforceable in any respect under any law, the validity, legality and enforceability of the remaining provisions will not be in any way affected.

18.5 Assignment

TDL may assign or sub-contract the performance of this Agreement (in whole or in part) or any one or more of the Tests to be performed hereunder to suitably accredited laboratories including those listed in the Laboratory Guide. The Client may not assign this Agreement or any of its rights or obligations hereunder without the prior approval of TDL.

18.6 Relationship of the parties

It is acknowledged and agreed that TDL and the Client are independent contractors and nothing in this Agreement shall create or be construed as creating a partnership or (except as provided in clause 12) a relationship of agent and principal between the parties. The Client acknowledges and agrees that, in requesting Services from TDL, it is not acting as agent for any patient or patients to which the Services relate.

18.7 Notices

All notices given under this Agreement shall be in writing and shall be delivered by hand or sent by prepaid first class post or by prepaid first class recorded delivery or by facsimile transmission, provided that a hard copy of any notice transmitted by facsimile is posted within 24 hours of such transmission. All notices shall be delivered at or sent, in the case of TDL, to The Halo Building, 1 Mabledon Place, London WC1H 9AX, fax number 020 7307 7374 and, in the case of the Client to the address and/or fax number specified in the Pathology Request Form submitted by the Client (or such other address as that party shall notify in writing to the other for this purpose). A notice sent by post shall be deemed to be served at 9.00 am on the second business day following the date of posting; a notice sent by facsimile transmission shall (subject to posting of a hard copy as provided above) be deemed to have been served at the time it is transmitted if transmitted within business hours (9.00 am to 6.00 pm) on a business day or. if transmitted outside such business hours on a business day or on a day which is not a business day as soon thereafter as such business hours commence.

18.8 Entire agreement

These Terms and Conditions and the documents referred to in them contain the entire Agreement in respect of its subject matter. Each party acknowledges that it has not entered into the Agreement in reliance on, and shall have no remedies in respect of, any representation or warranty that is not expressly set out in these Terms and Conditions except in the case of fraudulent misrepresentation.

18.9 Governing law

This Agreement and any dispute arising out of or in connection with it (including non-contractual disputes and claims) shall be governed by and construed in accordance with English law and each of the parties submits to the exclusive jurisdiction of the English Courts.

19 INTERPRETATION

19.1 In these Terms and Conditions and the Annex:-

'Agreement' means the contract between TDL and the Client for the supply of the Services, incorporating these Terms and Conditions.

'Annex' means the annex to the Terms and Conditions.

'Applicable Law' means as applicable and binding on the Client, TDL and/or the Services:

 a) any law, statute, regulation, byelaw or subordinate legislation in force from time to time to which a party is subject and/or in

any jurisdiction that the Services are provided to or in respect of;

b) the common law and laws of equity as applicable to the parties from time to time;

c) any binding court order, judgment or decree; or

d) any applicable direction, policy, rule or order that is binding on a party and that is made or given by any regulatory body having jurisdiction over a party or any of that party's assets, resources or business.

'Authorised Sub-Processors' means:

 a) Health Service Laboratories LLP and any other member of the TDL Group which provides the applicable Test or Service;

 b) accredited specialist centres for onward referral of esoteric assays as identified in the TDL Laboratory Guide;

c) persons who provide information technology services that TDL uses in the course of providing the Services; and

d) any Sub-Processor referred to in the Annex.

'Client' means the person or organisation requesting Services from TDL and for whom TDL has agreed to provide the Services.

'Data Controller' and 'Data Processor' have the meanings given to those terms (or to the terms 'controller' and 'processor' respectively) in Data Protection Laws

'Data Protection Laws' means the General Data Protection Regulation (EU) 2016/679 ('GDPR') and/ or any corresponding or equivalent national laws or regulations, the Data Protection Act 2018, and any Applicable Laws replacing, amending, extending, re-enacting or consolidating that legislation from time to time and any subordinate legislation made under that legislation.

'Data Subject' and 'Personal Data' have the meaning given to those terms in Data Protection Laws.

'Data Subject Request' means a request made by a Data Subject to exercise any rights of Data Subjects under Data Protection Laws.

'Group' in respect of any undertaking, means such undertaking and its group undertakings ('undertaking' and 'group undertaking' having the meanings given in the Companies Act 2006).

'Health Authority' means (i) a department of the UK government or of a devolved administration, (ii) an executive agency of such department, or (iii) a body exercising statutory functions in relation to public health in the UK or any part of the UK.

'Laboratory Guide' means TDL's Laboratory Guide current at the time the applicable Services are requested, as supplied to the Client or, if not so supplied, available on request from TDL.

'Pathology Request Form' means the electronic or hardcopy form provided by TDL to the Client for the Client to use to request Tests, as updated by TDL from time to time.

'Personal Data' has the meaning given to that term in Data Protection Laws.

'Personal Data Breach' means any breach of security leading to the accidental or unlawful destruction, loss, alteration, unauthorised disclosure of, or access to, any Protected Data.

'Processing' has the meanings given to that term in Data Protection Laws (and related terms such as process have corresponding meanings.

'Processing Instructions' has the meaning given to that term in paragraph 8.1.1.

'Protected Data' means Personal Data received by TDL from or on behalf of the Client or generated by TDL on behalf of the Client in connection with the performance of the Services.

'Public Health Programme' means a programme administered by a Health Authority to monitor or analyse health data for the purpose of public health or for statistical, scientific or research purposes in the public interest.

'Sample' means a sample provided by the Client to TDL for investigation.

'Services' means the conduct of the Tests specified in the request submitted by the Client and accepted by TDL, and/or such other services as TDL has agreed to supply to the Client.

'Sub-Processor' has the meaning given in clause 10.1.

'Supervisory Authority' means any local, national or multinational agency, department, official, parliament, public or statutory person or any government or professional body, regulatory or supervisory authority, board or other body responsible for administering Data Protection Laws.

'TDL' means The Doctors Laboratory Limited or such other member of the TDL Group as has agreed to provide the Services.

'TDL Group' means The Doctors Laboratory Limited and its Group and Health Service Laboratories LLP and its Group.

'Test' means a laboratory test to be carried out by TDL on a Sample supplied by the Client.

'UKAS' means the United Kingdom Accreditation Service, or any successor to it.

- 19.2 References to the singular include the plural and vice versa.
- 19.3 Clause headings and paragraph headings are for ease of reference only and are not part of these Terms and Conditions for the purpose of construction.
- 19.4 References to paragraphs are to paragraphs of the Annex.
- 19.5 The word 'including' shall be read as 'including but not limited to'.
- 19.6 The Annex is incorporated into these Terms and Conditions.

ANNEX

1 Subject matter and nature of processing

- 1.1 The subject matter and nature of TDL's processing of the Protected Data are:
- 1.1.1 pathology samples and test results for the purpose of providing clinical pathology services;
- 1.1.2 information about clinicians who order pathology tests, for the purposes of reporting the test results to the Client:
- 1.1.3 information about a patient's health insurance for the purposes of administering payment for the Services; and
- 1.1.4 billing information for a patient where the Client has asked TDL to direct TDL's invoice to the patient.

2 Duration of processing

The duration of the processing is the time necessary to carry out the Services.

3 Types of personal data

- 3.1 The Protected Data comprise the following types of personal data:
- 311 Name
- 3.1.2 Gender
- 3.1.3 Age
- 3.1.4 Address
- 3.1.5 Types of pathology tests conducted
- 3.1.6 Results of pathology tests
- 3.1.7 Health insurance policy details
- 3.1.8 Billing information
- 3.1.9 The types of data referred to in the TDL Laboratory Guide

4 Categories of data subjects

The Protected Data concerns patients in respect of whom TDL conducts pathology tests, and clinicians who request pathology tests.

5 Reporting pathology test results

- 5.1 TDL shall report Test results using the method selected by the Client from the range of options offered by TDL or, if no method is selected by the Client, using a method selected by TDL from that range of options.
- 5.2 TDL shall report the Test results using the contact details supplied to TDL in the relevant section of the Pathology Request Form. The Client shall be responsible for ensuring that those contact details are correct.

3 Where TDL supplies Test results electronically it shall ensure that the results are supplied in the format selected by the Client (from the range of options offered by TDL) and are supplied to the address indicated when the Client selects electronic results reporting. The Client shall be responsible for ensuring that the selected format is compatible with the Client's information systems and for making the results available to the users of those systems.

6 Fee to patient

Where the Client selects the 'fee to patient' option in a Pathology Request Form, the Client instructs TDL to seek payment from the patient of the fees owed by the Client in respect of that test. The Client confirms that the patient has agreed with the Client to pay those fees to TDL for the Client. The Client instructs TDL to recover the fees by invoicing the patient using the personal data provided by the Client. The Client instructs TDL on the Client's behalf to appoint debt collectors to recover the fees from the patient if the patient does not pay the invoice by the date payment falls due. The Client authorises TDL to appoint those debt collectors as Sub-Processors in accordance with clauses 8 to 15 (inclusive).



Telephone No. _____

Antenatal Screening Service for Down's, Edwards& Patau Syndromes and Open Neural Tube Defects

PATIENT DETAILS		
Surname:	Hospital No.:	
Forename:	Date of birth:	YY
NHS No.:	Post code:	
CLINICAL DETAILS (To be completed by Midwife or	Doctor)	
First day of Last Menstrual Period (LMP)	Does the patient have Insulin dependent diabetes? (no=0, yes=1)	
Vaginal bleed in the last 7 days? (no=0, yes=1) If yes please see overleaf	Is this an IVF pregnancy? (no=0, yes=1)	
Maternal weight (kgs)	If yes egg collection date:	YY
Height (cms)	embryo transfer date	ΥΥ
Previous Neural Tube Defect pregnancies (none=0, one=1, two or more=2)	If egg(s) donated enter the donor's DOB	ΥΥ
Previous Down's Syndrome pregnancies (none=0,	If unknown, enter donor age	
non-inherited=1, inherited translocation=2, type not known=3)	Does the patient smoke? (no=0, yes=1, given up during	
If the patient had a previous pregnancy with Down's syndrome how old was she at the time?	pregnancy=2, e-cigarettes=3, patches=4) If yes, number of cigarettes per day	
Previous other chromosomal pregnancy (no=0, yes=1). If yes, please specify abnormality and year diagnosed:	Did the patient take a daily supplement containing Folic Aci (no=0, before becoming pregnant=1, once she knew she was pregnant=	
Family origin: (Black Caribbean/African=1, White European=2	Has the patient had pre-eclampsia in a previous pregnanc (no=0, yes=1)	;y?
Indian/Pakistani/Bangladeshi/Sri Lankan=4, Chinese/Japanese/SE Asian=5, Other=6). If other, please specify:	If the patient has had an amniocentesis performed prior to test please see overleaf.	o this
ULTRASOUND SCAN		
Date of scan	FETUS 1 FETUS	2
Hospital where scanned	Nuchal translucency (NT) (mm):	
Number of fetuses	Crown rump length (CRL) (mm):	
If twins are they monochorionic or dichorionic? (MC=1, DC=2)	Head circumference (HC) (mm):	
Name of Sonographer	Gestational age at time of scan weeks	days
Sonographer ID Code	EDD D M M Y Y	
Date of serum sample DD MM YY Time taken	Sample taken by	
	f no, please complete below:	
Date of DNA sample DD MM YY Time taken	Sample taken by	

___ Fax No. ____

Leukaemic studies request (Cytogenetics/Molecular Genetics)





Priority Code:
First Name:
Date of Birth: DD MM YYYY
Gender: Male Female
Sample WBC (x10 ⁹ /l):
Sample Vol. (ml):
Time Received:
Amount Sample/Culture: Check:
Fax No.:
Treatment stage:
sion:
0mls Child: 2-5mls 5-10ml Child: 2-5mls
Bone Marrow: 24hrs
Fee to be paid by Doctor/Clinic as above

Postcode _____ Contact telephone number __

Genetic Request



In order to provide an efficient service for Genetic Requests, please complete the following:

PATIENT DETAILS	REFERRING	DOCTO)R	
Surname:	Name:			
First Name:	Address:			
Date of Birth: Gender: M F				
Patient Number:				
Ethnic Origin:	Telephone:			
Gestation (if applicable): weeks	Fax:			
	Ι αλ.			
TEST REQUEST				
Disease Name:				
Gene(s) to be Analysed:				
Test for: Diagnosis Carrier Screening Known Fam	ily Mutation			
Clinical Symptoms:				
Family History:				
Please state any Family Gene Mutation(s) if known:				
Please also provide copies of any relevant genetic or pathological				
INFORMED CONSENT				
PATIENT OR GUARDIAN				
Please cross-out where applicable:				
I consent /do not consent to be tested for the genetic test(s), which	h have been explained	to me		
I consent /do not consent for the results of this test to be available	-		nembers	
I consent /do not consent for DNA from this sample to be stored	3	,		
I consent /do not consent for DNA to be used anonymously for re	evant research			
Signed:	Date:	/	/	_
DOCTOR/GENETIC COUNSELLOR				
I have explained the purpose of obtaining a blood or tissue sample	for genetic testing			
Thave explained the purpose of obtaining a blood of tissue sample				
Signed:	Date:	/	/	_
This consent form is for use with diagnostic testing. It is important family members. We strongly recommend genetic counselling for por inherited cancers. Please contact our Consultant if you have qu	predictive testing in disc	orders such	as Huntingto	-
Fee to be paid by Patient/Other. PLEASE PROVIDE ADDRESS DETAILS				ee to be paid by octor/Clinic as above
Insurance Co Membership No				5-11-19/V2
Patient address				
Postcode Contact telep	hone number			

Supplies re-order form Tel: 020 7307 7373 Fax:020 7307 7340 E-mail:supplies@tdlpathology.com



Doctor/Practice:			DATE OF ORDER
Address:			
Requested by:		Tel:	IF URGENT BY
VACUTAINER TUBES EDTA 4ml Lavender EDTA 10ml Lavender (For STDX) SST/Serum 5ml Gold Fluoride Ox./Glucose 4ml Grey Lithium Heparin 6ml Green No Additive Red 6ml Sod. Heparin 6ml Dark Blue Citrate 4.5ml Light Blue	No. Required [SWABS, GYNAE & NON-G Speculum (10) S Thin Prep Vial + Thin Prep Microbiology CULTURE S ENT/Urethral CULTURE S PCR Swabs (chlamydia, r PCR Swabs (chlamydia, r Histology Pots 60ml	No. Required M
VACUTAINER NEEDLES 21g Green 21g Butterfly Green 22g Black 23g Butterfly Blue VACUTAINER BARREL WHITE	No. Required [✓ Virology Swabs GREEN✓ Blood Culture BottlesOTHERS – PLEASE SPEC	[] []
HELICOBACTER PYLORI Breath/Blow Bags URINE/STOOL CONTAINERS	No. Required [] No. Required		
 ☐ Urine/Universal Container pots 30ml ☐ Urine/Universal Container pots 60ml ☐ 24 hour Urine Containers ☐ Stool Pot ☐ FOB Pot 	[] [] [] []		
REQUEST FORMS Singles Duplicates PERSONALISED BARCODED FORMS Singles Duplicates		POSTAL PACKS (complying with Royal Mail reg HAEM/BIO (Lavender/Go HIV (Gold) 30ml MSU/DOA (Non Cha	Id/Grey) []
SAMPLE BAGS Clear Small Clear Large Red (Urgent) Large Sample Practice Packing Bag	No. Required [] [] []	DOA (with Chain of Custon STOOL (Blue top with sponsor) FOB Pack GROUP B KIT (GBS) FREEZER BIO BOTTLES BIO BOTTLE BOXES (Blue) THIN PREP KITS SALIVA KITS	(Pink) []

PATIENT RECEPTION AT: THE DOCTORS LABORATORY	OLINIGIAN		SOURCE	
76 Wimpole Street, London W1G 9F Monday to Friday 7.00am – 7.00pr Saturday 7.00am – 5.00pm Main Tel: 020 7307 7373			Additional	copy of results to:
Patient Reception Fax: 020 7307 73 Out of hours samples may be dropped at 76 Wimpole St		Fax		
SURNAME		DOB	/ /	When completing this form please provide at least three
FORENAME	TITLE	M/F		unique identifiers for your patient.
Please Tick (Biochemistry) DL1	Home Visit	Patient Ref/ID No.		
(Biochemistry/HDL) DL1L	PATIENT DETAILS LMP: / /			PROFILES AND TESTS Please specify
(Haem/Bio) DL2	Last smear: /			
(Haem/Bio/HDL) DL2L	MONTH YEAR Routine screen			
(Haematology) DL3	Colposcopy			
(Haem/Bio (short)) DL4	Previous HPV -ve -ve +ve			
(Haem/Bio/HDL) DL4L	Previous abnormal history (please specify):			
(Postal Haem/Bio) DL5				
(Postal Haem/Bio/HDL) DL5L	TESTS (DI FACE ODECIEVA			
Well Person Screen (DL2/T4/TSH/Ferritin) DL6	TESTS (PLEASE SPECIFY) PAPT A HR-HPV testing will always be carried out if PAPT			
Well Person Screen (DL2L/T4/TSH/Ferritin) DL6L DL6L	is requested as a single test. HPV will be charged.			
Well Man Screen (DL6/PSA/Ferritin) DL7	HPV HR-HPV mRNA If HPV is requested as a single test and is Positive/ Detected, cervical cytology (PAPT) will be carried			
Well Man Screen (DL6L/PSA/Ferritin) DL7L DL7L	out from the same vial without charge.			
Well Person Screen (DL6/VITD/Ferritin) DL8	HP20 20 HPV DNA subtypes If HP20 is requested as a single test and is Positive/Detected, cervical cytology (PAPT) will be			
Well Person Screen (DL6/HDL/VITD/Ferritin) DL8L	carried out from the same vial without charge. HPVT Typed DNA/mRNA			
Senior Male Profile 60+ DL9M	E6/E7 oncoproteins If HPVT is requested as a single test and is			
Senior Female Profile 60+ DL9F	Positive/Detected, cervical cytology (PAPT) will be carried out from the same vial without charge .			
Cardiovascular Risk Evaluation Profile DL10	TPCR Thin Prep Chlamydia TGON Thin Prep Gonorrhoea			TAP3643B/21-11-18/V7
Cardiovascular Risk Plus Profile DL11	TCG Thin Prep CT/GC	Clinical Details		
Sexual Health 7 STI screen by PCR DL12	7 STI (DL12) If M.gen is detected, macrolide resistance testing will be carried out without charge.	Fasting (tick if yes) Ethnic Origin (details, if relevant) Drug Therapy (Please specify)		_ _
Fee to be paid by Patient/Other. PLEA	SE PROVIDE ADDRESS DETAILS			Fee to be paid by
Insurance Co				☐ Doctor/Clinic as above
Patient address	·		`	gnature
				te sample taken
Postcode	Contact telephone	number	Tir	ne sample taken
For Practice Use Only:	For Laboratory Use Only: INITIALS EDTA SST GREY MSU		Service's Use Or	nly:
LEDIA SST GILLET WISO STREAMS	INITIALS EDIA SSI GREI MISO	OTHERS INITIALS TIME IN TIME		THE DOCTORS

Vacutainer	Anticoagulant	Capacity
Lavender	EDTA	4ml/10ml*
Gold	SST/Gel	5ml
Light Blue	Citrate	4.5ml
Red	None	6ml
Grey	Fluoride oxalate	2ml, 4ml
Green	Lithium heparin	6ml
Dark Blue	Sodium heparin	7ml
* 10ml EDTA tubes are u	sed for specific PCR assays	
•	BCT Vacutainers for lymphocyte lays). They are not suitable for	,
	e: contact laboratory	
	for advice on sample taking	
Test by appointmen	ıt	
Random Faeces		
Faecal Collection		
Random Urine		
Mid Stream Urine		
First Catch Random	n Urine (for DL12/Chlamydia, et	tc.)
30ml aliquot from a	24 hour urine collection – state	e total volume
30ml aliquot from a	24 hour urine collection with 1	10ml of
0.1N Hydrochloric A	cid added - state total volume)
Early Morning Urine	e (1st sample of the day)	
	(13t sample of the day)	
60ml container (ster	· · · · · · · · · · · · · · · · · · ·	
	rile)	
60ml container (ster Cytyc Thin Prep Via	rile)	medium
60ml container (ster Cytyc Thin Prep Via	rile) al for culture – swab in transport	medium
60ml container (ster Cytyc Thin Prep Via Orange/Blue swab t	rile) al for culture – swab in transport	medium
60ml container (ster Cytyc Thin Prep Via Orange/Blue swab t Black Charcoal swa Green Viral swab	rile) al for culture – swab in transport	
60ml container (ster Cytyc Thin Prep Via Orange/Blue swab t Black Charcoal swa Green Viral swab PCR swab for Chlar	rile) al for culture – swab in transport	
60ml container (ster Cytyc Thin Prep Via Orange/Blue swab t Black Charcoal swa Green Viral swab PCR swab for Chlar Tap/bottled water m	rile) al for culture – swab in transport ab mydia/PCR Infection Screening	

The Doctors Laboratory The Halo Building, 1 Mabledon Place, London WC1H 9AX Tel: 020 7307 7373 Fax: 020 7307 7374 E-mail: tdl@tdlpathology.com Web: www.tdlpathology.com

