


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p><b>UKAS</b> MEDICAL <b>8848</b></p> <p>Accredited to <b>ISO 15189:2022</b></p>	<p><b>Nottingham University Hospitals NHS Trust</b></p> <p>Issue No: 013 Issue date: 02 January 2025</p>	
	<p><b>Clinical Pathology Laboratory</b> <b>Queen's Medical Campus</b> <b>Nottingham</b> <b>NG7 2UH</b></p>	<p><b>Contact: Tom Atack</b> <b>Tel: +44 (0) 7812268411</b> <b>E-Mail: t.atack@nhs.net</b> <b>Website: www.nuh.nhs.uk</b></p>
<p><b>Testing performed by the Organisation at the locations specified below</b></p>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> Clinical Pathology Laboratory Queen's Medical Campus Nottingham University Hospitals NHS Trust Nottingham NG7 2UH</p> <p><b>Local contact</b> Tom Atack</p>	<p>Haematology Blood Transfusion Chemistry Trace elements Immunology Special Haematology</p>	QMC
<p>Clinical Pathology Laboratory Nottingham City Hospital Nottingham University Hospitals NHS Trust Nottingham NG5 1PB</p> <p>As Above</p>	<p>Haematology Blood Transfusion Chemistry Specialist Chemistry Trisomy Screening</p>	NCH
<p>Haematology Outpatients Clinic Nottingham City Hospital Nottingham University Hospitals NHS Trust Nottingham NG5 1PB</p> <p>As Above</p>	<p>Haematology</p>	NCH 2



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**Site activities performed away from the locations listed above:**

<b>Location details</b>	<b>Activity</b>
Theatres Queen's Medical Campus Nottingham University Hospitals NHS Trust Nottingham NG7 2UH	As Above
Theatres Nottingham City Hospital Nottingham University Hospitals NHS Trust Nottingham NG5 1PB	As above
Maternity Nottingham City Hospital Nottingham University Hospitals NHS Trust Nottingham NG5 1PB	As above
Toghill Ward Nottingham City Hospital Nottingham University Hospitals NHS Trust Nottingham NG5 1PB	As above
Cardiac Unit Nottingham City Hospital Nottingham University Hospitals NHS Trust Nottingham NG5 1PB	As above
	Storage and collection of blood and blood products
	Storage and collection of blood and blood products
	Storage and collection of blood and blood products
	Storage and collection of blood and blood products
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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	Documented in house methods and manufacturer's instructions for	
Serum or Plasma	Quantitation of: Alanine Transaminase (ALT)	Abbott Alinity C module, Activated Enzymatic method, PR3758 & PR3760	QMC/NCH
	Aspartate Aminotransferase (AST)		QMC/NCH
Serum or Plasma	25 Hydroxyvitamin D	Abbott Alinity I module, One step Immunoassay PR3758 & PR3760	QMC/NCH
	Cortisol		NCH
	Insulin		QMC
	Methotrexate		NCH
	Oestradiol		
	Progesterone		
	Testosterone		
	Thyroglobulin		NCH
	Alpha Fetoprotein	Abbott Alinity I module, Two step Immunoassay PR3758 & PR3760	QMC/NCH
	Anti-Thyroglobulin Antibodies		NCH
	CA 125		QMC/NCH
	CA 153		
	CA 199		
	CEA		
	C-Peptide		
	Ferritin		NCH
	FSH		QMC/NCH
	Folate		



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Serum or Plasma	Free T3	Abbott Alinity I module, Two step Immunoassay PR3758 & PR3760	QMC/NCH
	Free T4		
	LH		
Serum	NT-proBNP		
Serum or Plasma	Prolactin		
	Prostate Specific Antigen		
Plasma	PTH		
Serum or Plasma	Sex Hormone Binding Globulin (SHBG)		
	Thyroid peroxidase abs		
	Total HCG		
	Troponin I HS		
	TSH		
	Vitamin B12		
Urine	Urine C-peptide		NCH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Serum or Plasma	Alcohol	Abbott Alinity C module, Enzymatic method, PR3758 & PR3760	QMC
Plasma	Ammonia		QMC
Serum or Plasma	Amylase		NCH
	Bile Acids		
	Bicarbonate		
	Cholesterol		NCH
	Creatine Kinase (CK)		QMC
Plasma	Gamma GT		NCH
	Glucose		
	HbA1c		
Serum or Plasma	HDL Cholesterol		
Plasma	Lactate		QMC/NCH
Serum or Plasma	LDH		QMC/NCH
	Magnesium		
	Triglycerides		
	Urea		
	Uric Acid		
CSF	CSF Glucose	Abbott Alinity C module, Immunoturbidimetric method, PR3758 & PR3760	QMC/NCH
	CSF Lactate		
	CSF Protein		



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Urine	Urine Magnesium Urine Urea Urine Uric Acid (Urate)		
Serum or Plasma	Lamotrigine Levetiracetam	Abbott Alinity C module, Homogenous enzymatic method, PR3758 & PR3760	QMC
Serum or Plasma	Total Alkaline Phosphatase	Abbott Alinity C module, PNP Enzymatic method, PR3758 & PR3760	QMC/NCH
Serum or Plasma	Lipase Phenytoin Theophylline Paracetamol Salicylate	Abbott Alinity C module, Enzymatic immunoassay method, PR3758 & PR3760	QMC/NCH QMC QMC/NCH QMC
Serum or Plasma	Albumin Angiotensin Converting Enzyme (ACE) Iron	Abbott Alinity C module, Colourimetric method, PR3758 & PR3760	QMC/NCH
Serum	Lithium		
Serum or Plasma	Total Protein Calcium		
Urine	Urine Calcium	Abbott Alinity C module, Arsenazo III Colourimetric method, PR3758 & PR3760	QMC/NCH
Serum or Plasma	Alpha 1 Acid Glycoprotein	Abbott Alinity C module, Immunoturbidimetric method, PR3758 & PR3760	NCH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Serum or Plasma	Alpha 1 Antitrypsin	Abbott Alinity C module, Immunoturbidimetric method, PR3758 & PR3760	QMC/NCH
	Beta 2 Microglobulin ( $\beta$ -2M)		NCH
	Caeruloplasmin		QMC/NCH
Serum	Complement C3		
	Complement C4		
Serum or Plasma	C-Reactive Protein		
	Haptoglobin		
	IgA		
	IgG		
	IgM		
Urine	Urine Protein		
Serum	Rheumatoid factor		QMC/NCH
Serum or Plasma	Transferrin		QMC/NCH
Urine	Urine Albumin		QMC/NCH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for		
Serum or Plasma	Carbamazepine	Abbott Alinity C module, Particle enhanced turbidimetric inhibition (PETINIA) method, PR3758 & PR3760	QMC	
	Digoxin		QMC/NCH	
	Gentamicin			
	Tobramycin		QMC	
	Valproate		QMC	
	Vancomycin		QMC/NCH	
	Chloride		Abbott Alinity C module, Indirect ISE method, PR3758 & PR3760	QMC/NCH
	Potassium			
Urine	Sodium			
	Urine Potassium			
	Urine Chloride			
Serum or Plasma	Urine Sodium			
	Conjugated Bilirubin (Direct Bilirubin)	Abbott Alinity C module, Diazo method, PR3758 & PR3760	QMC/NCH	
Total Bilirubin				
Serum or Plasma	Creatinine	Abbott Alinity C module, enzymatic method, PR3758 & PR3760	QMC/NCH	
Urine	Urine Creatinine			
Serum or Plasma	Phosphate	Abbott Alinity C module, Photometric UV method, PR3758 & PR3760	QMC/NCH	
Urine	Urine Phosphate			





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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Serum & Plasma	Calculated parameters for: eGFR Adjusted Calcium	Calculated parameters from Abbott Alinity analysers as identified above.	QMC/NCH
Serum, Plasma & Urine	Creatinine Clearance		
Serum & Plasma	Cholesterol:HDL ratio Non-HDL cholesterol LDL cholesterol Transferrin Saturation Free Androgen Index Estimated Prolactin AKI score		
Urine	Adjusted phenytoin Urine albumin:creatinine ratio Urine protein:creatinine ratio Urine Calcium:creatinine ratio Urine C-peptide:creatinine ratio		QMC QMC/NCH NCH
CSF	Determination of: Xanthochromia	Thermo Scientific Evolution 201 UV-Visible Spectrophotometer PR2416	QMC



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Whole Blood - EDTA</p>	<p><u>Haematology examination activities for the purposes of clinical diagnosis</u></p> <p>Nucleated Red Cells (Absolute and Percentage), Retics (Absolute and Percentage) HB – Haemoglobin Platelets Optical Platelet Count MPV – Mean Platelet Count Red Cell Count Haemacrit (Packed Cell Volume PVC) MCV – Mean Cell Volume MCH – Mean Cell Haemoglobin MCHC – Mean Cell Haemoglobin Concentration RDW-CV – Red Cell Distribution Width Platelets (for platelet clumps) Neutrophils (Absolute and Percentage) Lymphocytes (Absolute and Percentage) Monocytes (Absolute and Percentage) Eosinophils (Absolute and Percentage) Basophils (Absolute and Percentage) Reticulocyte Haemoglobin Equivalent (Ret Hb)</p>	<p>Documented in house methods and manufacturer's instructions for</p> <p>Sysmex, XN10 and XN20 analyser, Flow cytometry. PR3879</p>	<p>QMC/NCH</p>



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purposes of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Whole Blood - EDTA	FBC - Full Blood Count: Nucleated Red Cells (Absolute and Percentage), Retics (Absolute and Percentage) HB – Haemoglobin Platelets Optical Platelet Count MPV – Mean Platelet Count Red Cell Count Haemacrit (Packed Cell Volume PVC) MCV – Mean Cell Volume MCH – Mean Cell Haemoglobin MCHC – Mean Cell Haemoglobin Concentration RDW-CV – Red Cell Distribution Width Platelets (for platelet clumps) Neutrophils (Absolute and Percentage) Lymphocytes (Absolute and Percentage) Monocytes (Absolute and Percentage) Eosinophils (Absolute and Percentage) Basophils (Absolute and Percentage)	Sysmex XN 550 Analyser using PR3377	NCH 2
Whole Blood - EDTA	WBC – White Cell Count	Sysmex, XN10 and XN20 analyser, White cells are analysed by the Adaptive Cluser Analysis system. The analyser applies the Mahalanobis Principle using laser. PR3879	QMC/NCH



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purposes of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Whole Blood - EDTA	Metamyelocytes (Absolute and Percentage) Myelocytes (Absolute and Percentage) Promyelocytes (Absolute and Percentage) Blast Cells (Absolute and Percentage) Plasma Cells (Absolute and Percentage)	Manual differential, PR3646	QMC/NCH
Whole Blood - EDTA	Blood film assessment for detection of abnormal cell types, morphology and numbers	Sysmex SP50 staining analysers PR3903 using MGG Stain and Leica Microscopes and Sysmex Cellavision DI-60 PR3666	QMC/NCH
Whole Blood - EDTA	Malaria Screening Test for P. LDH and P. falciparum	CareUS Malaria screening kit, Monoclonal antibodies for all malaria species pLDH and P. falciparum specific HRP2. PR3644	QMC/NCH
Whole Blood - EDTA	IM Screening Test – Infectious Mononucleosis	Clearview IM screening card kit, A IM heterophil antibody/latex-labelled bovine erythrocyte glycoprotein complex. PR2376	QMC/NCH
Whole Blood - EDTA	Erythrocyte Sedimentation Rate (ESR)	Vitech scientific – StarrSed (Automated), Erythrocyte sedimentation analysis based on Westergren reference method. PR3360	QMC/NCH
Whole Blood - EDTA	Glucose 6 phosphate dehydrogenase (G6PD)	Northstar Scientific Uvikon XS Spectrophotometer, Trinity Biotech G6PD screen Spectrophotometric light detection, PR3565	QMC
Whole Blood - EDTA	Zinc Protoporphyrin (ZPP)	Helena Biosciences PFZ Haematafluorometer, Fluorescent light detection, PR2630	QMC



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purposes of clinical diagnosis</u> (cont'd)		
Whole Blood - EDTA	Plasma Viscosity - PV	Benson-Plasma viscometer BV 200 analyser, Rate of flow through capillary of known diameter and length under constant pressure and temperature. PR3776	NCH
Plasma - Citrate	<u>Coagulation examination activities for the purposes of clinical diagnosis</u> APTT – Activated Partial Thrombin Time PT – Prothrombin Time TT – Thrombin Time Fibrinogen (Clauss INR – International Normalised Ratio APTT – Ratio Protamine Sulphate APTT- 50:50 mix	Documented in house methods and manufacturer's instructions for  Sysmex CS5100analysers, clotting method measured by multi-wavelength light detection. PR3789. Back up Stago KC4 delta analyser by mechanical clot detection method. PR2379	QMC/NCH
Plasma - Citrate	D-Dimer	Sysmex CS5100analyser, Immunoturbidimetric assay, PR2424-CS5100	QMC/NCH
Whole Blood: EDTA samples	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u> Blood Grouping	Documented in house methods and manufacturer's instructions for  BioRad IH1000 and IH500 Analysers, column agglutination method – PR 2326	QMC/NCH
Whole Blood	Newborn blood grouping	BioRad Manual Column agglutination Method – PR2317  Bio-Rad IH-500 analyser and SOPs PR2326 and PR3877	QMC/NCH



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Plasma	Antibody Screening <ul style="list-style-type: none"> <li>• Rh- C,D,E,c,e,</li> <li>• Kell- K,k,</li> <li>• Duffy- Fya, Fyb</li> <li>• MNSs- M, N, S, s</li> <li>• Kidd- Jka, Jkb</li> </ul>	BioRad IH1000 and IH500 Analysers SOPs PR2326 and PR3877	QMC/NCH
Whole Blood	Rh/K phenotyping	BioRad IH500 Analyser SOPs PR2326 and PR3877	QMC/NCH
Whole Blood: EDTA samples	Antigen phenotyping: C, c, E, e, K, Fya, Fyb, Jka, Jkb, M, N, S, s	Manual Method method by column agglutination – Diamed Gel Cards - PR2317	QMC/NCH
Whole Blood	Antibody Identification	Bio-Rad IH-500 analyser and SOPs PR2326 and PR3877	QMC/NCH
Plasma		Manual method by column agglutination using Diamed Gel Cards 3 and 4 Cell panels	QMC/NCH
EDTA Plasma	Cross Matching	Manual Method by column agglutination – Diamed Gel Cards PR2314 Manual Cross matching and blood selection	QMC/NCH
EDTA	Direct AHG test	Manual Method by column agglutination – Diamed Gel Cards - PR2317	QMC/NCH
Whole Blood	Monospecific DAT	Bio-Rad IH-500 analyser and SOPs PR2326 and PR3877	QMC/NCH
Whole Blood	Foeto-Maternal Haemorrhage estimation	Manual method by acid elution - FMH Testing PR2318	QMC/NCH
		Feto-Maternal Haemorrhage investigation using Clin-tech reagents following SOP PR2318	QMC/NCH



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HUMAN BODY FLUIDS (cont'd)	<u>Special Haematology examination activities for the purpose of clinical diagnosis</u>	Documented in house methods and manufacturer's instructions for	
Whole Blood - EDTA	Haemoglobin Variant identification HbA HbC Hb D Hb E Hb S	Acid and Alkaline Electrophoresis using Helena Biosciences SAS-1 kits PR3612	QMC
Whole Blood - EDTA	Haemoglobinopathy screening including detection of Hb A2* Hb F*	Documented -in-house methods to meet the requirements of the Sickle Cell and Thalassaemia screening programme as defined in the July 2018 'NHS Sickle Cell and Thalassaemia screening:laboratory QA evidence requirements' as identified with*  Bio-Rad Variant II using HPLC PR3756	QMC
PB	Haemoglobin S Solubility Test	Confirmatory testing on Helena Biosciences, PR2633	QMC/NCH



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Plasma - Citrate</p>	<p><u>Special Haematology examination activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>APTT PT TCT Reptilase FIB Factor VIII Factor IX Factor XI Factor XII Factor II Factor V Factor VII Factor X Factor VIII inhibitor screen Factor IX inhibitor screen Factor VIII chromogenic assay Factor XIII chromogenic assay Alpha2antiplasmin Von Willebrands Ag Ristocetin Co-Factor Antithrombin Activity Free Protein S Antigen Lupus Anticoagulant Plasminogen Protein C Activity Heparin Assay anti Xa</p>	<p>Documented in house methods and manufacturer's instructions for</p> <p>Sysmex CN6500 analyser. Multi-wavelength transmitted light detection – clotting method.</p> <p>PR2526 PR2527 PR2528 PR2615 PR2529 PR2605 PR2605 PR2605 PR2605 PR2604PR2604 PR2604 PR2604 PR2609 PR2609 PR2606 PR2647 PR2602 PR2617 PR2617 PR2595 PR2597 PR2598 PR2599 PR2600 PR2594</p>	<p>QMC</p>





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HUMAN BODY FLUIDS (cont'd)	<u>Special Haematology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Plasma - Citrate	Heparin Assay anti Xa (apixaban) Heparin Assay anti Xa (rivaroxaban) Heparin Assay HTI (dabigatran)) Heparin Assay HTI (Argatroban) Fibrinogen Antigen Assays (FIBA) Antithrombin Antigen	Sysmex CN6500 analyser. Multi-wavelength transmitted light detection – chromogenic method PR2594  PR2594  PR3384  PR3383  PR3385  Using Liaphen Antithrombin Antigen kit PR2596	QMC
Plasma - Citrate	Protein C Antigen	Manual, ELISA method. PR2601	QMC
Fresh Serum – Non gel tube	HIT Assay	Manual. ELISA method PR2623	QMC
Plasma - Citrate	Collagen Binding Assay	Manual, ELISA method. PR2610	QMC
Whole Blood - Citrate	Platelet Closure	PFA-200 analyser. Platelet aggregation method PR2621	QMC



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HUMAN BODY FLUIDS (cont'd)	<u>Trace element examination activities for the purpose of monitoring</u>	Documented in house methods and manufacturer's instructions for	
Serum	Trace Elements (Copper, Selenium and Zinc)	Agilent 7700x Inductively-coupled plasma mass spectrometer (ICP-MS); Detection by the mass spectrometer; PR2814 Trace Elements By ICP-MS	QMC
Urine	Copper	Agilent 7700x Inductively-coupled plasma mass spectrometer (ICP-MS); Detection by the mass spectrometer; PR2813 Urine Copper by ICP-MS	QMC
Whole Blood	Lead	Agilent 7700x Inductively-coupled plasma mass spectrometer (ICP-MS); Detection by the mass spectrometer; PR2816 Lead in whole blood by ICP-MS	QMC
Whole Blood	Detection of: Chromium Cobalt	Agilent 7700x Inductively-coupled plasma mass spectrometer (ICP-MS); Detection by the mass spectrometer; PR2818	QMC
Sweat	Sweat Chloride and Sodium	Wescor Macroduct system, Wescor Sweat-Chek Sweat Conductivity Analyser, Agilent 7700x ICP-MS; PR2520 Sweat Analysis: Conductivity and ICP-MS Chloride and Sodium	QMC



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HUMAN BODY FLUIDS (cont'd)	<u>Specialist Chemistry examination activities for the purpose of clinical diagnosis</u>	Documented in house methods and manufacturer's instructions for	
Urine, CSF, plasma, serum	Quantitative Amino Acids	Amino Acid Analyser, Ion-exchange chromatography, PR2484 Amino Acid Quantitation by AAA	NCH
Lithium Heparinised Whole Blood	White Cell Cystine	Amino Acid Analyser; Ion-exchange chromatography; PR2489 White Cell Cystine	NCH
Plasma	Phenylalanine/Tyrosine	Amino Acid Analyser; Ion-exchange chromatography; PR2486 Phenylalanine and Tyrosine by AAA	NCH
Urine	Qualitative Organic Acids	Gas Chromatograph and Mass Spectrometer; Organic acids extracted into solvent and TMS derivatives separated by gas chromatography and identified by mass spectrometry:- PR3935 Thermo Scientific ISQ7610 Single Quadrupole GC-MS	NCH
Urine	Mucopolysaccharides	Electrophoresis tank and power pack, 1D Cellulose Acetate Electrophoresis, PR2473 Mucopolysaccharide Electrophoresis	NCH
Serum, plasma	Biotinidase	Spectrophotometer, product of substrate conversion detected using a spectrophotometer; PR2480 Biotinidase Assay	NCH
Urine	Glycosaminoglycans	Spectrophotometer; Colour reaction of GAG's with dimethylmethylene blue detected using Spectrophotometry; PR2468 DMB Screening Test for Total Glycosaminoglycans	NCH



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HUMAN BODY FLUIDS (cont'd)	<u>Specialist Chemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Urine	Semi Quantitative Urine total porphyrins	Spectrophotometer; Scanning for characteristic spectra following acidification of sample; PR1662 Urine Porphyrin Screen	NCH
Urine	Porphobilinogen	Manual Assay; Anion exchange resin and coloured reaction with Ehrlich's aldehyde reagent to be read qualitatively; PR3742 Urine Porphobilinogen Modified Mauzerall and Granick Method PBG by column	NCH
Urine, faeces	Qualitative Urine and Faecal Sugars	Manual method; Monosaccharides and disaccharides are separated by thin layer chromatography using silica gel plates and identified using a dihydroxynaphthalene location stain TLC, PR2478 Sugar Chromatography	NCH



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HUMAN BODY FLUIDS (cont'd)	<u>Specialist Chemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Urine	Qualitative Urine Oligosaccharides	Manual method; Oligosaccharides separated by thin layer chromatography and identified using an orcinol stain, PR2474 Urine Oligosaccharide Chromatography	NCH
Urine	Qualitative Urine Sialic acid	Manual method; Free sialic acid or sialic acid containing oligosaccharides separated by thin layer chromatography and identified using a resorcinol stain; PR2477 Urine Sialic Acid Chromatography	NCH
Urine	Qualitative Amino acids	Manual method; Amino acids separated by 2D-thin layer chromatography and identified using a ninhydrin stain; PR2464 Amino Acid Chromatography	NCH
Blood	Galactosaemia Screen	Manual method; presence of enzyme catalyses production of fluorescent product; PR2470 Galactosaemia Screening Test	NCH
Whole Blood	Cyclosporin	AB sciex API3200 Tandem mass spectrometry, LC-MS/MS following PR2482	NCH
Whole Blood	Tacrolimus Sirolimus	Sciex Citrine TandemMass Spectrometry, LC-MS/MS following PR3774 Immunosuppressants using API3200 Tandem MS Immunosuppressants PR2482	NCH
Plasma	Detection of: Aldosterone Renin	Diasorin Liaison XL, Chemiluminescent Immunoassay (CLIA), PR3677	QMC



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u>	Documented in house methods and manufacturer's instructions for	
Serum	CZE (Capillary Zone Electrophoresis)	Sebia Capillarys2 analyser, Capillary Zone electrophoresis method, PR2449 and PR2508	NCH
Serum	Immunofixation	Sebia Hydrasys2 analyser, Immunofixation method, PR2456, PR2502 Serum Immunofixation, PR2508	NCH
Serum	Detection of IgG Subclasses	Binding Site Optilite, PR3663	NCH
Serum	Serum free light chains - Kappa Lambda	Binding Site Optilite, PR3663	NCH
Serum	Alkaline Phosphatase Isoenzyme electrophoresis	Sebia Hydrasys2 analyser, Gel electrophoresis method, PR2456 and PR2508	NCH
Serum	Lipoprotein electrophoresis	Sebia Hydrasys2 analyser, Gel electrophoresis method, PR2456 and PR2508, PR2500 Lipoprotein Electrophoresis	NCH



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Serum	ANA (Screen and Titre) Liver Screen (AMA, SMA, LKM, GPC) Crithidia Islet Cell antibody ANCA Endomysial Antibodies (IgG) Endomysial Antibodies (IgA) Skin antibodies Paraneoplastic Antibodies (Hu, Yo, Ri, Amphiphysin	Quantalyser 3000 analyser, Indirect immunofluorescence method, PR3515	QMC
Serum	ENA screen Cardiolipin abs B-2-GP Abs Specific microbial antibodies (PCP andTet) IgG class autoantibodies against PLa2R	DS2 analyser, ELISA method, PR2712 for ENA screen PR3454 cardiolipin B2GP1 PR2688 PCP TET PR3643 PLA2R	QMC
Serum	TTG antibody (IgA) Anti GBM antibody quantitation Anti MPO Anti PR3 dsDNA	Bioflash, Chemiluminescence PR3148	QMC
Serum	M2 antibody typing LKM antibody typing SLA antibody typing ENA typing (RNP, Sm, La, Ro60, Jo1, Scl-70, Ro52)	Euroblotone, Immunoblot method. PR2945	QMC



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Serum	Extended ANA typing (RNP/Sm, Sm, Ro60, La, Scl-70, PM-Scl, Jo1, CENPB, PCNA, dsDNA, nucleosomes, Histones, ribP, M2) Paneoplastic antibodies (Hu, Yo, Ri, Amphiphysin, CV2, Ma2) Autoimmune myopathies screen (Mi-2 $\alpha$ , Mi-2 $\beta$ , TIF1Y, MDA5, NXP2, SAE1, Ku, Scl-100, PM-Scl75, Jo-1, SRP, Pl-7, Pl-12, EJ, OJ)"	Euroblotone, Immunoblot method. PR2945	QMC
Serum	NMDA receptor antibody	Manual method, Indirect immunofluorescence. PR2707	QMC
Serum	PLa2R antibody	Manual method, Indirect immunofluorescence. PR2713	QMC
Whole Blood - EDTA	HIV Panel CD45 CD3 CD4 CD8	Beckman Coulter Aquios Analyser, Flow Cytometry method. PR3521	QMC
Whole Blood - EDTA	Immunodeficiency panel and HIV panel CD45 CD3 CD4 CD8 CD19 CD56 CD16	Beckman Coulter Navios Analyser, Flow Cytometry method. PR2560	QMC





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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	QMC
Serum	IgE  <u>Specific Ig E Allergens</u>  Almond Alternaria alternata Amoxycillox Anise Apple Apricot Asparagus Aspergillus Fumigatus Aubergine, eggplant Avocado Baker's Yeast Banana Barley Beef Blue mussel Bovine gelatin Brazil Nut Buckwheat Budgerigar Feathers Caraway Cardamon Carrot Cashew Cat (Epithelium) Cedar Cefaclor Celery Cephalosporin Acremonium Kiliense Cheese (cheddar type) Cheese (mould type) Cherry Chicken Chicken droppings Chicken Feathers Chickpea Chilli Chlorhexidine Cladosporium herbarium Clove	Thermo Fisher Unicap (Immunocap) 250, FEIA method. PR3072	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Serum (cont'd)	<u>Specific Ig E Allergens</u> (cont'd) Coco Coconut Common Ragweed Cod fish Coriander Cow dander Cow's Milk Crab Cucumber Curry(santa maria) Dill Dog Dander Egg White Egg Yolk Fel d1, Recomb. Cat Fel d2, Recomb. Cat Serum albumin Fennel Fenugreek Fig Garlic Gelatin (bovine) Gerbil Ginger Gluten Grape Grapefruit Grass mix Green Bean Guinea pig epithelium Haddock Hake Hamster epithelium Hazelnut Honey Honey bee venom Horse Dander Horse fly House Dust Mite House Dust Mite(Dermatophagoides farinae)	Thermo Fisher Unicap 250, FEIA method. PR3072	QMC



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Serum (cont'd)	<u>Specific Ig E Allergens</u> (cont'd) Insulin bovine Insulin human Insulin porcine Isocynate HDI Isocynate MDI Isocynate TDI Jackfruit Kiwi Latex Lemon Lentil Lettuce Linseed Lobster Lupin Pollen Lupin seed Mace (Nutmeg) Mackerel Maize Mango Melon Mint Morphine Mouse epithelium, serum proteins and urine Mugwort Mushroom Mustard MUXF3 CCD, Bromelin nBos d 4 alpha-lactalbumin, Milk nBos d 5 beta-lactoglobulin, Milk nBos d 8 Casein, Milk nCan f 3 Dog serum albumin nGal d 2 Ovalbumin, Egg nGal d 3 Conalbumin, Egg nGal d 4 Lysozyme Egg nGly m5 beta-conglycinin, Soy nGly m6 Glycinin Nettle Oat	Thermo Fisher Unicap 250, FEIA method. PR3072	QMC



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Serum (cont'd)	<u>Specific Ig E Allergens</u> (cont'd) Omega-5-gliadin Onion Orange Ovomuroid Oyster Pacific Squid Paprika Parrot Feathers Parsley Pea Peach Peanut Pear Pecan Pencilloyl V Pencilloyl G Pepper Pigeon Feathers Pine Nut Pineapple Pistachio Plum Poppy seeds Pork Potato Pumpkin Pumpkin seed r Act d8 PR-10 Recomb. Kiwi rabbit Epithelium Rape seed Rape seed pollen rApi g1.01.PR-10 Celery rApi M1phospholipase A2 (Recomb. Honey Bee) rAra h 1 (Recomb. Peanut) rAra h 2 (Recomb. Peanut) rAra h 8 (Recomb. Peanut) rAra h3 (Recomb. Peanut) rAra h9 (Recomb. Peanut) Raspberry rBere 1 (Recomb Brazil) rBet V1 (Recomb.Birch)	Thermo Fisher Unicap 250, FEIA method. PR3072	QMC



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Serum (cont'd)	<u>Specific Ig E Allergens</u> (cont'd)  rBet v2 Profilin, Recomb Birch rCan f 1 Dog rCan f 2 Dog rCor A1 (Recomb. Hazelnut) rCor A8 (Recomb. Hazelnut) rCypc1carp Red kidney bean rGadc1Cod rGly m 4 (Recomb. Soy) rHev b1 Recomb. Latex rHev b11 (Recomb Latex) rHev b3 Recomb. Latex rHev b5 (Recomb Latex) rHev b6.02 Recomb. Latex rHev b8 (Profilin Recomb latex) Rice rPen a 1 Tropomyosin, (Recomb Shrimp) rPhl p 12 Profilin (Recomb. Timothy Grass) rPhl p 5b (Recomb. Timothy Grass) rPhl p1, rPhl p 5b Recomb. Timothy Grass rPol d 5 Paper wasp rPru p1 PR-10, Recomb. Peach Peach rPru p3 LTP, Recomb. Peach Rye Saffron Salmon Scallop Seminal Fluid Sesame seed Sharon / Persimmon fruit Shrimp (Prawn) Silver Birch Tree Sole Soya Bean Spinach Strawberry	Thermo Fisher Unicap 250, FEIA method. PR3072	QMC



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Serum (cont'd)	<u>Specific Ig E Allergens</u> (cont'd) Sunflower seeds Suxamethonium Thyme Timothy Grass Tomato Tree mix Trout Tuna Vanilla Ves V 1 Phospholipase A1, (Recomb. Common wasp) Ves V 5 (Recomb. Common wasp) Walnut Weed Mix Wheat Wheat (cultivated) White Bean Yellow jacket venom rTri a 14 LTP, Wheat rMal d1 PR-10 apple European hornet Langust (spiny lobster) American beech rJug r 1 Walnut rJug r 3 LTP, Walnut Brussel sprouts Ferret epithelium Halibut Fennel Dandelion rAna o 3, Cashew Lime Goat's milk nCor a 9, Hazel nut rma d3 LTP, Apple Coffee Tea	Thermo Fisher Unicap 250, FEIA method. PR3072	QMC
Serum	CCP antibodies	Thermo Fisher Unicap (immunocap) 250, FEIA method. PR3072	QMC



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Serum	Tryptase	Thermo Fisher Unicap (immunocap) 250, FEIA method. PR3073	QMC
	<u>Trisomy screening</u>	Documented -in-house methods to meet the requirements of the Fetal Anomaly Screening Programme as defined in the July 2018 'NHS Fetal Anomaly screening programme: laboratory QA evidence requirements' as indicated with*	
Serum	Determination of: PAPP-A* fbhCG*	Perkin Elmer AutoDelfia analyser, Immunoassay-fluorescent detection method, PR2453first trimester Downs screening risk calculated using PR2510 Perkin Elmer Lifecycle 74 software.	NCH
Serum	Determination of: AFP* UE3* hCG* Inhibin A*	Perkin Elmer AutoDelfia analyser, Immunoassay-fluorescent detection method, PR2453 second trimester Downs screening risk calculated using PR2510 Perkin Elmer Lifecycle 74 software.	NCH
Serum	Pre-eclampsia testing – Placental Growth Factor (PIGF)	Perkin Elmer DELFIA Xpress, Immunoassay, PR3690	NCH
	Pregnancy Associated Plasma Protein-A (PAPP-A)		
Streck Tube Plasma	Non-invasive Pre-Natal Testing (NIPT)	REVVITY Vanadis using cell free DNA (cfDNA) extraction and Perkin Elmer Lifecycle risk calculation software PR3688	NCH
END			