


# 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 8508</p> <p>Accredited to ISO 15189:2022</p>	<h3>Sheffield Teaching Hospitals NHS Foundation Trust</h3> <p><b>Issue No:</b> 012    <b>Issue date:</b> 26 March 2026</p>	
	<p><b>Blood Sciences Laboratory Medicine Centre (North Lane)</b> North General Hospital Herries Road Sheffield S5 7AU</p>	<p><b>Contact:</b> Richard Fleming <b>Tel:</b> +44 (0) 114 2715719 <b>E-Mail:</b> <a href="mailto:richard.fleming1@nhs.net">richard.fleming1@nhs.net</a> <b>Website:</b> <a href="https://www.sybpathology.nhs.uk">https://www.sybpathology.nhs.uk</a></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> Haematology Department Royal Hallamshire Hospital Glossop Road Sheffield S10 2JF</p> <p><b>Local contact</b> Dean Tazzyman</p>	<p>Haematology Blood Transfusion Coagulation Blood Issue fridge Clinical Chemistry</p>	A
<p><b>Address</b> Haematology Department Laboratory Medicine Centre (North Lane) North General Hospital Herries Road Sheffield S5 7AU</p> <p><b>Local contact</b> Dean Tazzyman</p>	<p>Haematology Blood Transfusion Coagulation Blood Issue fridge Clinical Chemistry</p>	B



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

<b>Location details</b>	<b>Activity</b>
Blood Issue fridge A floor, Theatre Royal Hallamshire Hospital	Storage and issue of blood and blood products
Blood Issue Fridge Jessop Wing Theatre Royal Hallamshire Hospital	Storage and issue of blood and blood products
Blood Issue fridge O2 Day Ward	Storage and issue of blood and blood products
Blood Issue Fridge Weston Park Hospital	Storage and issue of blood and blood products
Blood Issue fridge Huntsman Ward North General Hospital	Storage and issue of blood and blood products
Blood Issue Fridge Chesterman (cardiac) Theatre Recovery North General Hospital	Storage and issue of blood and blood products
Blood Issue Fridge Spinal Injury Unit, Osborn Theatre Recovery North General Hospital	Storage and issue of blood and blood products
Blood Issue Fridge A&E Resus Fridge North General Hospital	Storage and issue 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>Haematology examinations for the purposes of clinical diagnosis</u>	In-house documented procedures based on equipment manuals as relevant	
Blood	Full Blood Count Haemoglobin White Blood Cell Count Red Blood Count Platelet Count Haematocrit Mean Cell Volume Mean Cell Haemoglobin Mean Cell Haemoglobin Concentration Neutrophil count Lymphocyte count Monocyte count Eosinophil count Basophil count Reticulocyte count Nucleated Red Cells	Sysmex XN9000 (Two XN-10 S/N 53198/53201 at NGH and two XN-10 S/N 53205/53206 at RHH) by flow cytometry, impedance and Spectrophotometry SOPs HAUTO042, HAUTO019	RHH, NGH
Blood	Quantification of haemoglobin	Haemocue photometer and SOP HAUTO018	RHH, NGH
Blood	Blood film assessment for the detection of abnormal cell types, morphology and numbers	Automated using Sysmex slide maker stainer SP-50 and manual method using SOPs HMORPH0016, HMORPH0017, HMORPH0018 HMORPH002 HMORPH009	RHH, NGH



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Haematology examinations for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant including documented in-house methods to meet the requirements of the SCT screening programme* as defined in the laboratory QA evidence requirements	
Blood	Detection of abnormal haemoglobin* (HbA2 and HbF) and putative identification of Hb variants Hb S, C, D- Punjab, E, O- Arab, Lepore	Haemoglobinopathy Primary Screening:  Sebia Capillarys 3 Tera Analyser using capillary electrophoresis, SOP RHHS055	RHH
Blood	Screen for Sickle Haemoglobin	Clin-Tech Sickle Test SOP RHHS001	RHH, NGH
Blood	Confirmation of haemoglobin variants	Haemoglobin Electrophoresis for confirmation of identity of Hb variants detected by CE. Sebia Hydrasys Haemoglobin Electrophoresis SOP RHHS065	RHH
Blood	Identification of any haemoglobin variant	Electrospray-Ionisation Mass Spectrometry (ESI-MS) method using the Thermo Fisher TSQ Quantum Ultra LC-MS system Mass Spectrometer, With reference to the online database of Hb Variants: <a href="http://globin.bx.psu.edu/hbvar/menu.html">http://globin.bx.psu.edu/hbvar/menu.html</a> SOP RHHS052, RHHS053	NGH
Blood	Detection and quantitation of malarial parasites; Plasmodium falciparum, Plasmodium vivax, Plasmodium ovale, Plasmodium malariae, Plasmodium knowlesi	Manual staining of thin film (pH7.2) and thick films using Fields stain and CareUs Test, SOP HMORPH006	RHH, NGH
Blood	ESR	Sysmex Interliner Westergren method and SOP HAUTO037	RHH, NGH



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examinations for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant including documented in-house methods to meet the requirements of the SCT screening programme* as defined in the laboratory QA evidence requirements	
Plasma	Detection of Infectious Mononucleosis heterophile antibody	Biokit monogen latex agglutination kit and SOP HMORPH005	RHH, NGH
Blood	G6PD assay	Pointe Scientific assay kit and Camspec M209T single beam scanning spectrophotometer, SOP RHHS029	RHH
Blood	G6PD screen	Trinity biotech Kit 203-A Qualitative fluorescent spot method, SOP RHHS029	RHH
Blood	Quantification of HbA1c	Sebia Capillarys 3 Tera Analyser using Capillary Electrophoresis, SOP RHHS056	RHH



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examinations for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Plasma	Quantitative measurement of Plasma Viscosity	Benson Plasma Viscometer BV1 SOP RHHS030	RHH
Blood	Quantitative determination of total glycated haemoglobin	Alere Afinion analyser using a Boronate Affinity colorimetric method, SOP RHHS049	RHH
HUMAN BODY FLUIDS (cont'd)	<u>Immunophenotyping examinations for the purposes of clinical diagnosis</u>	In-house documented procedures based on equipment manuals as relevant. Performed on a BD FACSCanto II flow cytometer or BD FACSLyric flow cytometer	
Blood	Techniques as described below:  Lymphocyte subset analysis, percentage and absolute number of: CD3, CD3/4, CD3/8, CD19, CD16/56, CD4/CD8 ratio	SOPs RHCM016, RHCM062	RHH
Blood	CD34 enumeration, measuring absolute number of haemopoietic stem cells	RHCM022, RHCM063	RHH
Blood	Screen and high resolution assay for demonstration of paroxysmal nocturnal haemoglobinuria. Neutrophils, monocytes and red blood cells are analysed using FLAER and CD24 for detection of a PNH clone in neutrophils, FLAER and CD14 in monocytes, and CD59 in red blood cells. Clone size reported as a %	RHCM073	RHH
Blood	Screen and quantitation of Foetal Hb in maternal blood for FMH determination	STHBB017	RHH



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HUMAN BODY FLUIDS (cont'd)	<u>Immunophenotyping examinations for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant. Performed on a BD FACSCanto II flow cytometer or BD FACSLyric flow cytometer	
Blood, bone marrow, CSF, body fluids	Techniques as described below:  Acute leukaemia panel to identify immunophenotype of leukaemic blast cells, to assess cell lineage, maturation stage, prognostic markers, and diagnose type of haematological malignancy using the following antibodies CD3, CD7, CD10, CD13, CD14, CD15, CD16, CD19, CD20 CD25, CD33, CD34, CD38, CD45, CD117, HLADR, CD64, CD2, Cytoplasmic MPO, CD22, CD3, CD79a and TDT, CD4, CD5, CD8, CD56, CD1A, CD26, CD11c CD11b, CD41, CD61, CD235a.	RHCM065	RHH
Blood, bone marrow, CSF, body fluids	Lymphoproliferative panel: For identification of leukaemic lymphoid cells to assess maturation stage, possible prognostic markers, and sub- classify type of leukaemia/ lymphoma/myeloma using antibodies CD19, CD20, CD10, FMC7, CD23, CD79b, CD3, CD5, CD200, CD43, CD103, CD11C, CD25, Kappa, Lambda, CD1A, CD2, CD7, CD26, CD4, CD8, HLADR, CD56, CD16, CD138, CD38, Cytoplasmic CD3, CD79a, CD22, and TDT	RHCM013	RHH



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HUMAN BODY FLUIDS (cont'd)	<u>Immunophenotyping examinations for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant. Performed on a BD FACSCanto II flow cytometer or BD FACSLytic flow cytometer	
CD3+ T Cell fraction, selected from blood	Techniques as described below:  T cell purity assessment of sample undergoing lineage specific chimerism. Expressed as a % of nucleated cells	Immunophenotyping technique using SOP RHCM075.  BD FACSCanto II flow cytometer (only)	RHH
Blood	Platelet glycoprotein analysis using CD61, CD41 and CD42b to determine normal, reduced or absent antigen expression	RHCM067	RHH
Blood	Immuno platelet counting utilising CD61, CD41 and CD42b to determine the platelet count	RHCM066	RHH
Bone marrow aspirate	Bone marrow morphological examination: assessment for detection of abnormal cell types, morphology and numbers	Manual and Lamb Stainmate staining using May Grunwald and Giemsa and examined using light microscopy. SOP RHMO006, RHHODS003	RHH
Bone marrow	Assessment of iron (Haemosiderin) and detection of ringed sideroblasts in bone marrow smears	Manual slide staining using Perls stain and SOP RHCM052	RHH



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examinations for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Blood	Determination of blood group (ABO and RhD type)	Grifols Erytra analysers using column agglutination, STHBB073  Manual method by Grifols Erytra gel cards or tube using SOP STHBB091	RHH, NGH
Plasma	Antibody screening for red cell antibodies to: C, D, E, c, e, M, N, S, s, P1, K, k, Lea, Leb, Fya, Fyb, Jka, Jkb	Grifols Erytra analysers using column agglutination (indirect anti- globulin test) and STHBB073  Manual method using Grifols Gel Card (indirect anti-globulin test) and SOP STHBB092	RHH, NGH
Plasma	Antibody identification of red cell antibodies to: C, D, E, c, e, Cw, M, N, S, s, P1, Lua, K, k, Kpa, Lea, Leb, Fya, Fyb, Jka, Jkb	Grifols Erytra analysers using column agglutination (indirect anti- globulin and saline enzyme test) and SOP STHBB083  Manual method using Grifols Gel Card (indirect anti-globulin test, saline enzyme test, indirect anti-globulin test enzyme, saline room temperature test) and SOP STHBB083	RHH, NGH  RHH
Blood and plasma	Serological cross match or electronic issue	Grifols Erytra analysers using column agglutination (indirect anti- globulin test) and SOP STHBB025  Manual method using Grifols Gel Card (indirect anti-globulin test) and SOP STHBB025, STHBB045	RHH, NGH
Blood	Phenotyping: Rh, C, c, E, e	Grifols Erytra analysers using column agglutination and SOP STHBB084  Manual method using Grifols Gel Card and SOP STHBB084	RHH, NGH



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examinations for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Blood	Neonatal group and direct antiglobulin test	Grifols Erytra analysers using column agglutination and SOP STHBB073  Manual method using Grifols Gel Card (indirect anti-globulin test) and SOP STHBB091	RHH
	Direct Antiglobulin Test including anti-IgG and anti-C3d	Grifols Erytra analysers using column agglutination and SOP STHBB094  Manual method using Grifols Gel Card and SOP STHBB094	RHH, NGH
Blood	Blood group (ABO and Rh D type)	Manual method using tile group and SOP STHBB0107	RHH, NGH
Blood	Blood group (ABO and Rh D type)	Manual method using tube group and SOP STHBB0107	RHH
Plasma	Titration of Anti-A and Anti B	Manual method using indirect antiglobulin test, saline test and SOP STHBB089	RHH
Blood	Kleihauer-Screen for Foetal Hb in maternal blood for FMH determination	Manual method using CLIN-TECH Sheperds stain and SOP STHBB056	RHH



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HUMAN BODY FLUIDS (cont'd)	<u>Coagulation examinations for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Plasma	Quantitative measurement of FXIII antigen	Latex Immunoturbidimetric performed on ACL TOP. SOP RGA039	RHH
Plasma	Quantitative measurement of the following for diagnosis of thrombophilia:  Chromogenic Antithrombin (IIa and Xa)  Chromogenic Protein C Antithrombin Antigen Progressive Antithrombin Clotting Protein C Activity Clotting Protein S Activity Free Protein S Factor V Leiden screen Homocysteine Plasminogen	ACL TOP analyser using chromogenic, latex immunoturbidimetry, end point clotting and immunoassay, SOPs  RGT026, RGT009  RGT026 RGT040 RGT011 RGT047 RGT047  RGT026 RGT026 RGT027 RGT052	RHH  RHH
Plasma	Quantitative measurement of the following clotting factor levels:  Factor II, V, VII, VIII, IX, X, XI, XII  High molecular weight kininogen and prekallikrein	Sysmex CS5100 analyser  Clotting end point assay and SOP RGA027  Clotting end point assay and SOP RGA037	RHH, NGH  RHH
	Two stage Factor VIII, an incubation step for production of FXa and second step to determine the amount of FXa proportional to FVIII level	Two step assay using SOP RGA030	RHH
	Chromogenic FVIII-determination of FVIII level relative to FX activation	Chromogenic assay using SOP RGA038	RHH, NGH



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HUMAN BODY FLUIDS (cont'd)	<u>Coagulation examinations for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Plasma (cont'd)	Quantitative measurement of the following clotting factor levels:	Sysmex CS5100 analyser	
	Chromogenic FIX-determination of FIX level relative to FX activation	Chromogenic assay using SOP RGA040	RHH
	Chromogenic FIX activity determination and Refixia (N9-GP) monitoring	Chromogenic assay using Rossix kit and SOP RGA040	RHH
	FXIII Assay	Chromogenic ammonia release assay. SOP RGA007	RHH
Plasma	Fibrinogen antigen	Latex immunoassay using SOP RGRCS-301	RHH
Plasma	Automated coagulation screen tests:	Tests performed on Sysmex CS5100 using light transmission, optical change or immunoturbidimetry	RHH, NGH
	Prothrombin time INR	COAG11	
	PT +50% correction APTT	COAG10	
	APTT ratio	COAG14	
	APTT +50% correction	COAG13	
	Fibrinogen (Clauss & derived)	COAG15	
	Thrombin time		
	Thrombin time and Protamine Sulphate Correction	COAG15 COAG8	
	D-Dimer Reptilase time	COAG7	
	Alpha 2 antiplasmin	RGR-CS221	
	Quantitative measurement of the following clotting factor inhibitors:	Sysmex CS5100 analyser	RHH
	Quantitative assay of VIII Bethesda inhibitor	Based on the amount of FVIII inactivated by test plasma. SOP RGA032	RHH



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HUMAN BODY FLUIDS (cont'd)	<u>Coagulation examinations for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Plasma (cont'd)	Quantitative assay of non-specific clotting factor inhibitors	Based on the amount of factor inactivated by test plasma, SOP RGA033	RHH
Plasma	Quantitative assay of Von Willebrand Factor inhibitor assay	Based on the amount of VWF inactivated by test plasma, SOP RGA010	RHH
Plasma	Quantitative measurement of Von Willebrand Factor Activity	Immunoturbidimetric assay using antibody to Gp1b performed on Sysmex CS5100. SOP RGA035	RHH
Plasma	Quantitative measurement of Von Willebrand Factor Antigen	Immunoturbidimetric assay using antibody against VWF performed on Sysmex CS5100. SOP RGA034	RHH
Plasma	Dilute Russell Viper Venom Time	Sysmex CS5100 analyser using clotting end point for detection of antiphospholipid antibodies. SOP RGL019	RHH
Plasma	Quantitative measurement of the following anticoagulants: Low molecular weight heparin Heparinoid Unfractionated heparin Fondaparinux	Sysmex CS5100 analyser:  Chromogenic anti-Xa assay using SOP COAG12	RHH, NGH
Plasma	Direct IIa inhibitors	Dilute thrombin time assay using SOP RGR-CS212, RGRCS303	RHH
Plasma	Direct Xa inhibitors	Chromogenic anti-Xa assay using SOPs COAG12	RHH, NGH
Citrated Plasma	In vitro measurement of Heparin and their analogues: Low molecular weight Heparin Orgaran Unfractionated Heparin Fondaparinux Rivaroxaban Apixaban Edoxaban	Chromogenic Biophen Heparin LRT assays using SOPs RGNCS038 and COAG12	RHH, NGH



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HUMAN BODY FLUIDS (cont'd)	<u>Coagulation examinations for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Plasma	VWF multimers	Agarose gel electrophoresis and immunofixation with the Hydrasys 2 RGA060	RHH
Plasma	Quantitative measurement of Protein C antigen	Manual ELISA using polyclonal antibody to protein C and Genscript labelled HRP labelled antibody. SOP RGT005	RHH
	Quantitative measurement of Factor X antigen	Manual ELISA using polyclonal antibody to Factor X and Genscript labelled HRP labelled antibody. SOP RGT005	RHH
	Quantitative measurement of VWF antigen	Manual ELISA using polyclonal antibody to protein VWF and HRP labelled antibody. SOP RGA010	RHH
	Quantitative measurement of Factor VII antigen	Manual ELISA using polyclonal coat to Factor VII and peroxidase labelled antibody. SOP RGT039	RHH
	Quantitative measurement of Total and Free Protein S	Manual ELISA using polyclonal antibody to protein S and HRP labelled antibody. SOP RGT012	RHH
	Quantitative measurement of Antithrombin Antigen	Manual ELISA using polyclonal antibody to antithrombin and HRP labelled antibody. SOP RGT013	RHH
	Quantitative measurement of ADAMTS-13 Activity	Manual Chromogenic ELISA for the determination of ADAMTS-13 activity in human plasma. SOP RGA026	RHH
	Quantitative measurement of ADAMTS-13 Antibody	Manual Chromogenic ELISA for determination of human autoantibodies (IgG) against ADAMTS-13. SOP RGA049	RHH
Citrated plasma	Quantitative measurement of protein C antigen	Automated immunoassay (hyphen) using Sysmex CN6000. SOP RGT059	A



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HUMAN BODY FLUIDS (cont'd)	<u>Coagulation examinations for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Plasma	Qualitative measurement FVIII binding	Manual ELISA using monoclonal capture antibody to FVIII and chromogenic assay to quantitate bound FVIII. Sop RGA006	RHH
	Quantitative measurement of collagen binding of vWF	Manual Bio-immunoassay based on the ability of vWF to bind collagen. SOP RGA005	RHH
Serum	Quantitative measurement of the following:	ACL Acustar analyser	RHH
	Anti-Cardiolipin IgG and IgM antibodies	Chemiluminescent assay and SOP RGL017	
	Anti-B-2-Glycoprotein-1	Chemiluminescent assay and SOP RGL017	
Citrated plasma	Anti-β-2-Glycoprotein-1 IgM	Chemiluminescent assay and SOP RGL017	A
Serum	Heparin induced thrombocytopenia screen for the detection of associated IgG antibody	ACL Acustar analyser using chemiluminescence and SOP RGP022	RHH
Citrated Plasma	ADAMTS-13 activity	ACL Acustar analyser using chemiluminescence (IL reagents) and SOP RGADAMTS-13	RHH
Citrated plasma	ADAMITS13 activity	Automated FRET assay. Ceveron s100. SOP RGADAMTS003	A
Plasma	Manual coagulation tests as follows: PT APTT Thrombin time Fibrinogen	Visual endpoint tilt tube assay using SOPs RGRM01 RGRM02 RGRM03 RGRM04	RHH, NGH
Plasma	Qualitative detection of heparin binding site defects in antithrombin	Two dimensional electrophoresis on agarose gels using SOP RGT031	RHH
Blood	Detection of whole blood haemostasis	Rotational thromboelastometry (ROTEM) analyser using SOP RGA009	RHH



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Whole blood	Detection of Factor V Leiden (FVL) mutation	Loop Mediated Isothermal Amplification (LAMP) using MIC-4 thermal cycler for melting curve analysis for presence of:	
Whole Blood	Detection of Prothrombin Allele mutation (p20210a)	FVL mutation, La Car MDx reagents SOP RGT055  p20210a mutation, La Car MDx reagents SOP RGT056	



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HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Serum	Albumin	Roche Cobas 8000 (c702 module) Spectrophotometric assay SOP CCTAUTO060	RHH, NGH
	Alkaline Phosphatase		
	ALT		
	AST		
	Amylase		
	Ammonia		
	Bicarbonate		
	Bilirubin		
	Direct bilirubin		
	Calcium		
	Cholesterol		
	Creatinine Kinase		
	Creatinine (Jaffe)		
	Glucose		
	Protein		
	Iron		
	Unsaturated Iron Binding Capacity		
Serum/plasma	LDH		
Serum	Triglyceride		
	Urea		
	Gamma-GT		
	HDL Cholesterol		
	Lithium		NGH
	Phosphate		RHH, NGH
	Magnesium		
	Uric Acid		
CSF	Protein		
	Glucose		
	Lactate		
Plasma	Lactate	Spectrophotometric assay	
Serum	Vancomycin	Enzyme immunoassay	
Serum	Lipoprotein A	Particle enhanced immunoturbidimetric assay	NGH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Serum	C-reactive protein	Roche Cobas 8000 (c702 module) (*ISE module) SOP CCTAUTO045	RHH, NGH
Serum, Urine	Sodium	Indirect ion selective electrode*	RHH, NGH
	Potassium Chloride		
Serum	Creatinine (Enzymatic)	Spectrophotometric assay	RHH
	Gentamicin	Cloned enzyme donor immunoassay	RHH
	Paracetamol	Spectrophotometric assay	NGH
	Salicylate	Spectrophotometric assay	NGH
	Ethanol	Spectrophotometric assay	NGH
	Tobramycin	Enzyme immunoassay	NGH
	Valproate	Enzyme immunoassay	NGH
	Carbamazepine	Kinetic interaction of microparticles in solution assay	NGH
	Phenobarbital	Kinetic interaction of microparticles in solution assay	NGH
	Bile Acids	Roche Cobas 8000 using Diazyme reagents RCCAUTO103	RHH
	Angiotensin Converting Enzyme	Roche Cobas 8000 using Buhlmann reagents RCCAUTO103	RHH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Urine	Phenytoin	Roche Cobas 8000 (c702 module) SOP CCTAUTO060  Kinetic interaction of microparticles in solution assay	RHH, NGH
	Theophylline	Kinetic interaction of microparticles in solution assay	NGH
	Microalbumin	Immunoturbidimetric assay	RHH, NGH
	Protein	Spectrophotometric assay	
	Amylase	Spectrophotometric assay	
	Calcium	Spectrophotometric assay	
	Creatinine (Jaffe)	Spectrophotometric assay	
	Glucose	Spectrophotometric assay	
	Urea	Spectrophotometric assay	
	Phosphate	Spectrophotometric assay	RHH
	Magnesium	Spectrophotometric assay	RHH, NGH
	Uric Acid	Spectrophotometric assay	



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Serum	Ferritin	Chemiluminescent immunoassay Roche Cobas 8000 (e801 module) SOP CTTAUTO060	RHH, NGH
	B12		
	Beta hCG		
	Cortisol		
	Free T4		
	Free T3		
	TSH		
	Digoxin		NGH
	high sensitivity Troponin T		RHH, NGH
Serum	Vitamin D	Protein binding assay	
	Folate	Protein binding assay	
Plasma	Parathyroid hormone	Chemiluminescent immunoassay	NGH
Serum	FSH	Chemiluminescent immunoassay	RHH
	LH		RHH
	Oestradiol		RHH
	Testosterone		RHH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Serum	<u>Placental groth factor (PIGF)</u>	Chemiluminescent immunoassay Roche Cobas 8000 (e801 module) SOP RCCAUTO106E	RHH
	<u>Soluble fms-like tyrosine kinase-1 (sFlt)</u>		RHH
	<u>sFlt/PIGF ratio</u>		RHH
Serum	Progesterone	Chemiluminescent immunoassay Roche Cobas 8000 (e801 module) SOP CTTAUTO045	RHH
	SHBG		RHH
	Prolactin		RHH
Plasma	Insulin		RHH
	Anti-Mullerian hormone		RHH
	Growth hormone		RHH
	ACTH		RHH
Serum	C-Peptide		RHH
	P1NP		NGH
	nt-ProBNP		NGH
	<u>IGF-1</u>	<u>Electrochemiluminescent Immunoassay using Roche Cobas 8000 (e801)</u>	RHH
	Teicoplanin	Thermo reagent, QMS immunoassay	NGH





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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Blood/urine	Drugs of abuse screen and Quantitation  Amphetamine Cocaine Benzoylcegonine Alprazolam Diazepam Nordiazepam Chlordiazepoxide Temazepam Codeine Dihydrocodeine Free morphine Total morphine Citalopram N-desmethylocitalopram, Mirtazapine Amitriptyline Nortriptyline Sertraline Venlafaxine O-Desmethylvenlafaxine, Pregabalin Gabapentin Diphenhydramine Tramadol O-Desmethyltramadol Paracetamol Oxycodone Clozapine,, Desmetnylclozapine Methadone Propranolol MDMA MDA Ketamine Methamphetamin	In house assay, Q-Exactive High Resolution Mass Spectrometer using SOP SCTX021	NGH



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HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Blood, Urine	Ethanol	In house assay using Varian Head Space GC and SOP RCCTX0008	NGH
Blood, Serum, Urine and Vitreous fluid	<u>Ethanol</u>	Agilent 8860 Headspace Gas Chromatography and SOP SCTX007	NGH
Plasma/serum	Ethylene glycol	In house assay using Agilent 5575 GC and SOP SCTX001	NGH
HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Serum, blood, gastric contents, urine	Lamotrigine	In house assay using Thermo Fisher Accela HPLC and SOP'S RCCTX7040	NGH
	Trazodone	RCCTX0048	
	Salicylate	RCCTX0070	
		RCCTX0004	
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Serum, Blood, Urine, gastric contents*		In house assays using Agilent 5575 GCMS and SOPs: -	NGH
	Barbiturates	RCCTX0072	
	Cyclizine	SCTX003	
	Procyclidine	SCTX003	



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Blood	Ciclosporin Tacrolimus Sirolimus	In house assay using Thermo Fisher TSQ Quantis Plus and SOP LCMSSCCL014	NGH
Serum Serum	DHEAS hCG	Siemens Immunlite 2000 Chemiluminescent assay SOP RCCENDA0003	RHH
Whole blood	Carboxyhaemoglobin	Thermo Fisher GENESYS 140 Spectrophotometer and SOP SCTX018	NGH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Urine	5HIAA Catecholamines Metanephrines	HPLC Ultimate 3000 using Chromsystems Kits and SOPs SCC019 5HIAA SCC020 Catecholamines SCC021 Metanephrines	NGH
	17-hydroxy progesterone Androstenedione	In house assay using Thermo Fisher TSQ Quantis Plus and SOP LCMSSCCL002  SCCL002 SCCL002	NGH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Serum	Copper Selenium Zinc Aluminium	In house assay ICP-MS using Agilent 7700 SCTM004 SCTM004 SCTM004 SCTX007	NGH  NGH
Blood	Lead	SCTM005	NGH
Urine	Copper	SCTM004	
Urine, Dialysis Water	Lead	CCNTTMET015	
Serum	Alkaline Phosphatase Isoenzymes	Helena IEF electrophoresis and SOP SCTM010	NGH
Urine	hCG	Manual radio immunoassay using polyclonal antibody and SOP RCCENDM0015	NGH
Faeces	Pancreatic Elastase	Buhlmann fPELA turbo and SOP RCCENDM0085	RHH
Serum, Urine	Osmolality	Vitech osmometer using freezing point depression and SOP CCNAUTO021 & RCCAUTO0007	RHH, NGH
CSF	Bilirubin	UVIKON Scanning Spectrophotometer with BioC software and SOP RCCAUTO174	RHH
Urine	24h Volume (mL) by weight	Manual gravimetric calculation	RHH, NGH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Serum	Calculated Tests for the purposes of clinical diagnosis:	By calculation	
Serum	% Saturation IBC		
Serum	Anion Gap		
Urine	Corrected Calcium		
Urine	Creatinine Clearance		
	Fractional Excretion of Calcium		
Serum	Free Androgen Index		
Serum	Globulin		
Serum	LDL Cholesterol		
Serum	Non-HDL Cholesterol		
Serum	Osmolal Gap		
Urine	Renal Phosphate Threshold		
Urine	SMV NTX/CR Ratio		
Serum	Total Cholesterol/HDL Ratio		
Serum	Total Iron Binding Capacity		
Urine	Urea Clearance		
Urine	Amylase/Creatinine Clearance ratio		
Urine	Urine Copper/Creatinine Ratio		
Urine	Urine Mercury/Creat Ratio		
Urine	Urine Microalbumin Ratio		
Urine	Urine Protein/Creatinine ratio		
Urine	Urine lead/creat ratio		
Serum	eGFR EPI		
Urine	24hr Urine Calcium		
Urine	24hr Urine Chloride		
Urine	24hr Urine Creatinine		
Urine	24hr Urine Copper		
Urine	24hr Urine Potassium		
Urine	24hr Urine Microalbumin		
Urine	24hr Urine Magnesium		
Urine	24hr Urine Sodium		
Urine	24hr Urine NTX/Creatinine ratio		
Urine	24hr Urine Phosphate		
Urine	24hr Urine Protein		
Urine	24hr Urine Uric Acid		
Urine	24hr Urine Urea		



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
	Calculated Tests for the purposes of clinical diagnosis:	By calculation	
Urine	24hr Urine Lead		
Serum	% Recovery Prolactin		
Urine	Urine PBG/Creatinine ratio		
Urine	Calcium excretion		
Serum	FSH/LH Ratio		
Urine	Amylase Creatinine ratio		
Urine	Urine Urea (Mass)		
Urine	Urine Creatinine (Mass)		
Urine	Urine Noradrenaline / Creatinine ratio		
Urine	Urine Adrenaline / Creatinine ratio		
Urine	Urine Dopamine / Creatinine ratio		
Urine	24hr Urine Dopamine		
Urine	24hr Urine Adrenaline		
Urine	24hr Urine Noradrenaline		
Urine	24hr Urine Metanephrines		
Urine	24hr Urine Normetanephrines		
Urine	24hr Urine 5HIAA		

END