


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL 9899 Accredited to ISO 15189: 2022</p>	Birmingham Women's and Children's NHS Foundation Trust	
	Issue No: 009 Issue date: 31 October 2025	
	Blood Sciences Department Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH	Contact: Samuel Dey Tel: +44 (0) 121 333 9865 E-Mail: samuel.dey@nhs.net Website: www.bwc.nhs.uk
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Blood Sciences Department Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH	Local contact Samuel Dey 0121 333 9865	Blood Sciences: Clinical Chemistry, Blood Transfusion, Haematology, Specialist Haemostasis and Flow Cytometry
Address Birmingham Women's Hospital Lower Ground Floor Mindelsohn Way Edgbaston Birmingham B15 2TG	Local contact Phillip Hurley 0121 333 9925	Fetal Anomaly Screening Programme

Site activities performed away from the locations listed above – satellite fridges

Location details	Activity
Emergency Department Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH	Contact: Mrs Andrea Hughes, Section Head, Blood Transfusion Tel: 0121 333 9858 Email: andrea.hughes5@nhs .net
	Blood storage & issue only



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Location details	Activity
Ward 18 (Blood Room) Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH	Blood storage & issue only
Theatre R Block TH5 Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH	Blood storage & issue only
Main Theatres (Blood Room) Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH	Plasma freezer, storage & issue only
PICU Birmingham Children's Hospital Steelhouse Lane Birmingham B4 6NH	Blood storage & issue only



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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>Blood Transfusion examinations to assist in clinical investigations</u>	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	A
Whole blood	Blood Group by detection and identification of antigens: ORhD positive ORhD negative ARhD positive A RhD negative B RhD positive B RhD negative AB RhD positive AB RhD negative	Automated Rapid Provisional Group ABO and Rh D using Grifols Erytra Elexis analysers and Grifols DG Gel Confirm P Monoclonal Anti-A, Anti-B, Anti D(VI-) and Control: BST/PS/035 2nd automated check group using Grifols Erytra Elexis analysers and Grifols DG Gel Confirm P Monoclonal Anti-A, Anti-B, Anti D(VI-) and Control. BST/PS/035	A
Plasma/Whole blood	Blood Group by detection and identification of antigens: ORhD positive ORhD negative ARhD positive A RhD negative B RhD positive B RhD negative AB RhD positive AB RhD negative	Automated Full Group – Forward and Reverse group using Grifols Erytra Eflexis analysers and Grifols DG Gel ABO/Rh (2DVI-) HSB026 Monoclonal Anti-A, Anti-B, Anti-AB, Anti-D (VI-) x2, Control, Grifols Serigroup Diana A1 and B cells. BST/PS/035	A
Whole Blood	Neonatal Blood Group (ABO and RhD) and Direct Antiglobulin Test DAT : ORhD positive ORhD negative ARhD positive A RhD negative B RhD positive B RhD negative AB RhD positive AB RhD negative	Automated analysis using Grifols Erytra Eflexis analysers and Grifols DG Gel Newborn Monoclonal Anti-A, Anti-B, Anti-AB, Anti-D (VI-), Anti-D (VI+), Control, Anti IgG, Polyspecific DAT (Anti-IgG+C3d): BST/PS/035	A



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examinations to assist in clinical investigations</u> (cont'd):	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
Whole Blood	Screening and identification of antibodies to : Rh (C, D, E, c, e, Cw) Kell (K, k, Kpa, Kpb, Jsa, Jsb) Duffy (Fya, Fyb) Kidd (Jka, Jkb) Lewis (Lea, Leb) P1 MNS (M, N, S, s) Lutheran (Lua, Lub) and Xga	Automated analysis using Grifols Erytra Elexis analysers and Grifols DG Gel Coombs (IgG+C3d) plus Grifols Serascan Screening cells 1, 11, 111 : BST/PS/035	A
	Compatibility Testing of patients plasma with donor cells	Automated analysis using Grifols Erytra Elexis analysers and Grifols DG Coombs (IgG+C3d): BST/PS/035	A
	Direct Antiglobulin Test	Automated analysis using Grifols Erytra Elexis analysers and Grifols DG Coombs (IgG+C3d): BST/PS/035	A
	Antigen phenotyping: Rh and Kell Phenotype C, D, E, c, e, Kell (K)	Monospecific DAT method using Grifols DG DC Scan monospecific DAT (IgG+C3d, IgG only, C3d only, control): BST/PS/035	A
	M Phenotype:	Automated analysis using Grifols Erytra Elexis analysers and Grifols DG Gel Rh Subgroups +Kell Anti-D (VI+), Anti-C, Anti-E, Anti-c, Anti-e, Anti-Cw, Anti-Kell : BST/PS/035	A
		Automated analysis of M antigen phenotyping using Grifols Erytra Elexis analysers and Grifols M antitoxin reagent method: BST/PS/035	A



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examinations to assist in clinical investigations</u>	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
Whole Blood	Full Blood Count: Haemoglobin platelet count red blood cell count mean cell volume haematocrit mean cell haemoglobin mean cell haemoglobin concentration white blood cell count white blood cell differential	Sysmex XN2000 FBC analyser. Method - Fluorescence flow cytometry method, hydrodynamic focussing DC detection, SLS haemoglobin method SOP - FBC Validation (BSAH/PS/16)	A
	Reticulocyte count	Sysmex XN2000 FBC analyser. Method - Fluorescence flow cytometry method. SOP - FBC Validation (BSAH/PS/16)	A
	Nucleated red cell count	Sysmex XN2000 FBC analyser. Method - Fluorescence flow cytometry method. SOP - FBC Validation (BSAH/PS/16)	A A
Peripheral blood	Microscopic analysis of blood films to determine morphological abnormalities	Hematek stain machine, microscope. Method – Staining (modified Wright's stain), microscopic examination. SOP - Performing a manual differential using the Extended-Intelligent Processing Unit (EPU) (BSAH/PS/13) SOP - Blood and Bone Marrow Film Preparation (HSR0287) SOP - Microscopic film examination (HSR0023)	A



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examinations to assist in clinical investigations</u> (cont'd):	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:	
Whole Blood	Malaria screening for: Plasmodium Falciparum and / or other species (P. Ovale, P. Malariae, P. Vivax, P. Knowlesi).	Commercial kit - Carestart malaria rapydtest. Method - Immunoassay.	A
	Detection & speciation (thin films) of malaria parasites: Plasmodium Falciparum, P. Ovale, P. Malariae, P. Vivax, P. Knowlesi.	SOP - CareStart Malaria RDT (HSR0467)	A
	Glucose 6 Phosphate Dehydrogenase screen	Manual staining: SOP - Giemsa Stain pH 7.2 (HSR0360)	A
		Commercial kit - Trinity Biotech G6PD Deficiency, Longwave UV light source. Method - Visual fluorescence screening. SOP - G6PD Screen (HSR0293)	A
Whole blood, Plasma (citrate or EDTA), Serum.	Detection of infectious mononucleosis heterophile antibodies	Commercial kit - Clearview® IM II Test for Infectious Mononucleosis. Method - Immunoassay.	A
		SOP - Clearview® IM II Test for Infectious Mononucleosis (BS/PS/17)	A
Whole Blood	Erythrocyte Sedimentation Rate (ESR)	Commercial kit - Sarstedt Microvette CB200. Manual method - Sedimentation.	A
		SOP - ESR Examination - Sarstedt method (BSAH/PS/17)	A



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Whole Blood	Haemoglobinopathy analysis by detection of haemoglobin variants:		
	Hb S detection	Sickledex	A
		SOP - Sickle Solubility Test (HSR0357)	A
	<u>Special Coagulation examinations to assist in clinical investigations</u>	Symex CS2000i Analyser - using Manufacturer's Reagent	
Citrated Plasma	Prothrombin Time (PT)	SOP: HSC0484	A
	Activated Partial Thromboplastin Time (APTT)	SOP: SOP HSC0486	A
	Clauss Fibrinogen (Fbg)	SOP HSC0491	A
	Thrombin Time / Protamine Sulphate Time (TT/TTPS)	SOP HSC0487	A
	International Normalised Ratio (INR)	SOP HSC0485	A
	Anti-Xa Assays (LMWH and UFH) (Chromogenic assay)	SOP BSSH/PS/60	A



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HUMAN BODY FLUIDS (cont'd)	<u>Special Coagulation examinations to assist in clinical investigations</u> (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: Sysmex CS2000i Analyser - using Manufacturer's Reagent	
Citrated Plasma	Factor II Assay (One-Stage) (PT based clotting)	SOP HSC0505	A
	Factor V Assay (One-Stage) (PT based clotting)	SOP HSC0506	A
	Factor VII Assay (One-Stage) (PT based clotting)	SOP HSC0507	A
	Factor VIII Assay (Modified One-Stage) (APTT based clotting)	SOP HSC0494	A
	Factor VIII Assay (Chromogenic)	SOP HSC0501	A
	Factor IX Assay (One-Stage) (APTT based clotting)	SOP HSC0495	A
	Factor X Assay (One-Stage) (PT based clotting)	SOP HSC0508	A
	Factor XI Assay (One-Stage) (APTT based clotting)	SOP HSC0496	A
	Factor XII Assay (One-Stage) (APTT based clotting)	SOP HSC0497	A
	Factor XIII Assay (chromogenic)	SOP HSC0509	A
	Von Willebrand Factor (vWF) Antigen Assay	SOP HSC0490	A
Von Willebrand Factor (vWF) Activity Assay	SOP HSC0511	A	



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HUMAN BODY FLUIDS (cont'd)	<u>Special Coagulation examinations to assist in clinical investigations</u> (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods: Sysmex CS2000i Analyser - using Manufacturer's Reagent	
Citrated Plasma (cont'd)	Antithrombin Activity Assay (AT)	SOP HSC0499	A
	Protein S (Free) Antigen Assay	SOP BSSH001	A
	Protein C Activity Assay	SOP HSC0498	A
	Lupus Anticoagulant Screen (dRVVT)	BSSH/PS/64	A
Peripheral Blood	Peripheral Blood Stem Cell Assay CD34	SOP: BSSH/PS/7	A
	Lymphocyte Subsets (Immune Monitoring) CD3, CD4, CD8, CD19, CD16/56	SOP: BSSH/PS/8	A
	EMA for Hereditary Spherocytosis	SOP: BSSH/PS/5	A
	Platelet Glycoprotein Assay CD41, CD42b, CD61, CD62p	SOP: BSSH/PS/9	A



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations to assist in clinical investigations</u>	Procedures documented in manufacturer's equipment manuals in conjunction with documented in- house procedures by the following methods:	
Plasma	3-Hydroxy Butyrate	Roche Cobas 501 – enzymatic method– 3 rd party (Randox) SOP I/S/H/025	A
Plasma/Serum	Alanine Amino Transferase	Roche Cobas 501 – enzymatic method – Roche reagent SOP S/S/A/062	A
Plasma/Serum	Albumin	Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/A/064	A
Plasma/Serum	Alkaline Phosphatase	Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/A/065	A
Plasma	Ammonia	Roche Cobas 501 – enzymatic method– 3 rd party (Randox) SOP S/S/A/095	A
Plasma/Serum, Urine, Fluid	Amylase	Roche Cobas 501 – enzymatic colorimetric method – Roche reagent SOP S/S/A/066	A
Plasma/Serum	Aspartate Transaminase	Roche Cobas 501 – enzymatic method – Roche reagent SOP S/S/A/063	A
Plasma/Serum	Bilirubin -Total	Roche Cobas 501 – colorimetric diazomethod – Roche reagent SOP S/S/B/102	A
Plasma/Serum, Urine	Bilirubin - Direct	Roche Cobas 501 – colorimetric method – 3 rd party(WAKO) reagent SOP S/S/B/112.	A
Plasma/Serum, Urine	Bicarbonate	Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/B/067	A



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Plasma/Serum	C-reactive Protein	Roche Cobas 501 – particle enhanced immunoturbidimetric method – Roche reagent SOP S/S/C/073	A
Plasma/Serum, Urine Fluid	Calcium	Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/C/068	A
Plasma/Serum, Urine Fluid	Creatinine	Roche Cobas 501 – enzymatic method – Roche reagent SOP S/S/C/075	A
Plasma/Serum	Cholesterol	Roche Cobas 501 – enzymatic colorimetric method– Roche reagent SOP S/S/C/072	A
Plasma/Serum, Urine Fluid	Chloride	Roche Cobas 501 – indirect ISE– Roche reagent SOP S/S/C/069	A
Plasma/Serum	Creatine Kinase	Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/C/074	A
Plasma/Serum	Free Fatty Acids	Roche Cobas 501 – colorimetric method– 3 rd party (Randox) SOP I/S/F/029	A
Plasma/Serum	Gamma-Glutamyl transferase	Roche Cobas 501 – enzymatic colorimetric method– Roche reagent SOP S/S/G/076	A
Plasma/Serum, Urine	Glucose	Roche Cobas 501 – enzymatic reference method with hexokinase– Roche reagent SOP S/S/G/086	A



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Plasma/Serum, Urine	High Density Lipoprotein Cholesterol	Roche Cobas 501 – Homogenous enzymatic colorimetric method– Roche reagent SOP S/S/H/108	A
Plasma/Serum	Immunoglobulins IgA, IgM, IgG	Roche Cobas 501 – immunoturbidimetric method – Roche reagent SOP S/S/I/104	A
Plasma/Serum	Iron	Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/I/107	A
Plasma/Serum	Lactate Dehydrogenase	Roche Cobas 501 - Optimized standard method according to the Deutsche Gesellschaft für Klinische Chemie (DGKC). Roche reagent SOP S/S/L/096	A
Plasma/Serum / CSF	Lactate	Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/L/082	A
Serum/Plasma	Magnesium	Roche Cobas 501 – colorimetric endpoint method – Roche reagent SOP S/S/M/098	A
Serum	Methotrexate	Roche Cobas 501 – Homogenous enzyme immunoassay method– 3 rd party (ARK reagent) SOP BSAC/PS/1	A
Plasma/Serum	Paracetamol	Roche Cobas 501 – Homogenous enzyme immunoassay method Roche reagent SOP S/S/P/099	A



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Plasma/ Serum / Urine / Fluid / Faeces	Potassium	Roche Cobas 501 – indirect ISE– Roche reagent BS/SOP/676	A
Plasma /Serum / Urine	Phosphate	Roche Cobas 501 – Molybdate UV photometric– Roche reagent SOP S/S/P/101	A
Plasma /Serum / Urine/ Fluid	Total Protein	Roche Cobas 501 – colorimetric method – Roche reagent SOP S/S/T/079	A
CSF	CSF Protein	Roche Cobas 501 – turbidimetric method – Roche reagent SOP S/S/P/007	A
Plasma /Serum / Urine / Fluid / Faeces	Sodium	Roche Cobas 501 – indirect ISE– Roche reagent SOP S/S/S/070	A
Plasma/Serum	Salicylate	Roche Cobas 501 – photometric method – Roche reagent SOP S/S/S/100	A
Plasma/ Serum / Fluid	Triglyceride	Roche Cobas 501 – enzymatic colorimetric method– Roche reagent SOP S/S/T/106	A
Plasma/Serum / Urine / Fluid	Urea	Roche Cobas 501 – kinetic photometric method – Roche reagent SOP S/S/U/103	A
Plasma/Serum	Uric Acid	Roche Cobas 501 – enzymatic colorimetric method– Roche reagent SOP S/S/U/078	A



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Plasma/Serum	Unbound Iron binding capacity	Roche Cobas 501 –colorimetric method– Roche reagent SOP S/S/U/093	A
Serum/Lithium Heparin Plasma	Vitamin D	Roche Cobas 601 – competitive chemiluminescent immunoassay – Roche reagent SOP S/S/133	A
Serum	Prolactin	Roche Cobas 601 – sandwich chemiluminescent immunoassay – Roche reagent SOP BSAC/PS/46	A
Serum	Macroprolactin	Roche Cobas 601 and PEG PPT – sandwich chemiluminescent immunoassay – Roche reagent SOP BSAC/PS/47	A
Plasma/Serum	Alpha-Fetoprotein	Roche Cobas 601 –sandwich chemiluminescent immunoassay– Roche reagent SOP S/S/A/094	A
Serum	Ferritin	Roche Cobas 601 – sandwich chemiluminescent immunoassay – Roche reagent SOP S/S/116 Ferritin	A
Plasma/Serum	Free Thyroxine	Roche Cobas 601 –competitive chemiluminescent immunoassay– Roche reagent SOP S/S/F/084	A
Serum	Oestradiol	Roche Cobas 601 – competitive chemiluminescent immunoassay – Roche reagent. SOP BS/SOP/702	A



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Plasma/Serum	Free Tri-iodothyronine (FT3)	Roche Cobas 601 –competitive chemiluminescent immunoassay– Roche reagent SOP BSAC/PS/37	
Serum	Folate	Roche Cobas 601 – competitive chemiluminescent immunoassay – Roche reagent SOP S/S/115 Folate	
Plasma/Serum	Follicle Stimulating Hormone	Roche Cobas 601 –sandwich chemiluminescent immunoassay– Roche reagent SOP S/S/F/089	
Plasma/Serum	Growth Hormone	Roche Cobas 601 –sandwich chemiluminescent immunoassay– Roche reagent SOP S/S/G/097	
Plasma/Serum	Luteinising Hormone	Roche Cobas 601 –sandwich chemiluminescent immunoassay– Roche reagent SOP S/S/L/091	
Serum	Parathyroid Hormone	Roche Cobas 601 –sandwich chemiluminescent immunoassay– Roche reagent SOP S/S/P/099	
Plasma/Serum	Cortisol	Roche Cobas 601 –competitive chemiluminescent immunoassay– Roche reagent SOP S/S/C/088	
Serum	Vitamin B12	Roche Cobas 601 – competitive chemiluminescent immunoassay – Roche reagent SOP S/S/114 Vitamin B12	



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Blood	Glycated Haemoglobin A1c (HbA1c)	Roche Cobas 501 turbidimetric inhibition immunoassay – Roche Reagent SOP S/S/H/025	A
Urine	Microalbumin	Roche Cobas 501 immunoturbidimetric– Roche Reagent SOP S/S/M/087	A
Lithium Heparin Plasma	D-Lactate	Roche Cobas 501 – megazyme enzymatic absorbance of NADH SOP DOC353	A
Serum	Serum Haptoglobin Quantitation	Roche Cobas 501 – immunoturbidimetric assay SOP BSAC/PS/86	A
Sweat	Chloride -Sweat	Collection -pilocarpine iontophoresis using Webster sweat inducer Collected via Wescor macroduct sweat collection system SOP BSAC/PS/21	A
Sweat	Sweat Conductivity	Analysis Sherwood 926S Chloride Analyser MK II via Coulometric titration BSAC/PS/10	A
Sweat	Sweat Conductivity	Westcor sweat check conductivity meter conductivity BSAC/PS/10	A
Plasma/ Serum / Urine	Osmolality	Vitech 3320 Freezing Point Osmometer: SOP S/S/O/033	A
Blood	Detection of Immunosuppressants: Tacrolimus Sirolimus Ciclosporin	LC/MS/MS Waters Xevo TQD 2 SOP BSSC/PS/1	A



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Blood	Detection of Immunosuppressants: Tacrolimus Sirolimus Ciclosporin	LC/MS/MS Waters Xevo TQ-s Micro System SOP S/S/I 109	A
Lithium Heparin Plasma	Ammonia	Fujifilm Dri-Chem System XN10N Dry-Slide Colourimetric SOP BSAC/PS/39	A
Serum	Alpha-fetoprotein (AFP)*	Documented in-house methods to meet the requirements of the Fetal Anomaly Screening Programme as defined in laboratory QA evidence requirements (tests marked *) Roche Cobas e601 electrochemiluminescence immunoassay:	B
	Free B human Chorionic Gonadotrophin (B-hCG)*	Clinical Chemistry 3188	B
	Pregnancy Associated Plasma Protein A (PAPP-A)*	Clinical Chemistry 54662	B
	Total human Chorionic Gonadotrophin (hCG+B)*	Clinical Chemistry 54661	B
	Inhibin A*	Clinical Chemistry 3180	B
	unconjugated Oestriol (uE3)*	Beckman Access 2 electrochemiluminescence immunoassay: Clinical Chemistry 54663	B
		Chem/MsuE3AD	B

END