


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>Accredited to ISO 15189:2022</b>	<b>St George's University Hospitals NHS Foundation Trust</b>	
	<b>Issue No:</b> 009 <b>Issue date:</b> 26 March 2025	
	<b>SWLP Department of Blood Sciences</b> Epsom and St Helier University Hospitals St Helier Hospital Wrythe Lane Surrey SM5 1AA	<b>Contact:</b> Pinika Patel <b>Tel:</b> +44 (0)2082962798 <b>E-Mail:</b> pinika.patel@nhs.net
<b>Testing performed by the Organisation at the locations specified below</b>		

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

#### Laboratory locations:

Location details		Activity	Location code
<b>Address</b> Department of Blood sciences St Helier Hospital Wrythe Lane Carshalton SM5 1AA	<b>Local contact</b> Pinika Patel	<ul style="list-style-type: none"><li>• Routine Haematology</li><li>• Blood fridges</li><li>• Biochemistry</li><li>• Special chemistry</li><li>• Neonatal screening</li><li>• Blood Transfusion</li></ul>	A
Department of Blood Sciences Epsom General Hospital Dorking Road Epsom KT18 7EG	Pinika Patel	<ul style="list-style-type: none"><li>• Routine Haematology</li><li>• Blood Transfusion</li><li>• Blood fridges</li><li>• Biochemistry</li></ul>	B

#### Blood fridge locations aware from the laboratory:

Location details		Activity	Location code
Elective Orthopaedic centre Epsom Hospital		<ul style="list-style-type: none"><li>• Blood Fridge</li></ul>	C
Ashted Hospital, The Warren, Ashted, KT21 2SB		<ul style="list-style-type: none"><li>• Blood fridge</li></ul>	D



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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>Haematological examination activities for the purposes of clinical diagnosis:</u>	Documented in house methods and manufacturers instructions for	
EDTA whole Blood	Quantitative determination of FBC to include:  Haemoglobin Platelets White cell count MCV RBC MCH MCHC RDW HCT Neutrophils Lymphocytes Monocytes Eosinophils Basophils	Sysmex XN10 using light scatter, impedance count and colormetric technology:  BSU.SOP.462	A, B
Blood	ESR	Vescube 200 using level sensing: BSU.SOP.089  Manual staining and automate (SP1000i)using MGG stain and light microscopy:	A, B
Blood films	Red cell, white cell and platelet morphology and white cell differential	BSU.SOP., 195, , 202, 212 466	A
Bone Marrow	All cell types	BSU.SOP. 266 406 408 and	A
Blood	Detection & speciation (thin films) of malaria parasites:  All plasmodium species known to cause human disease	Preparation of thick and thin films, staining and light microscopy using Giemsa and Fields A and B  BSU.SOP.221, 360, , 365	A



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examination activities for the purposes of clinical diagnosis (cont'd):</u>	Documented in house methods and manufacturers instructions for	
Blood	Heterophile antibody	Manual method using Clearview IM II kit- rapid chromatographic immunoassay: BSU.SOP.163	A, B
Blood	Malarial antigens of: <i>Plasmodium falciparum</i> and pan-detection for: <i>Plasmodium falciparum</i> , <i>Plasmodium malariae</i> , <i>Plasmodium ovale</i> & <i>Plasmodium vivax</i>	Manual method using Carestart Rapydtests (Pan/Pf) rapid chromatographic immunoassay: BSU.SOP.032	A, B
Blood	Sickle cells solubility - HbS	Microgen Bioproducts S-Test kit using insolubility: BSU.SOP.166	A
	Haemoglobinopathy testing :	Helena Biosciences Acid electrophoresis gel kit: Documented In-House Methods to meet the requirements of the SCT Programme handbook as defined in the current version of 'Sickle Cell and Thalassaemia in pregnancy screening: laboratory QA evidence requirements' for antenatal and newborn screening BSU.SOP.189	A
Blood	HbC HbD HbS HbE		
Blood	G6PD enzyme	Pointe Scientific G6PDH kit and Jenway spectrophotometer BSU.SOP.416	A



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examination activities for the purposes of clinical diagnosis (cont'd):</u>	Documented in house methods and manufacturers instructions for	
	Neonatal Haemoglobinopathy analysis by detection of haemoglobin variants:	Sebia CapillaryS 2 Neonat fast analyser using Capillary Electrophoresis: Documented In-House Methods to meet the requirements of the SCT Programme handbook and Newborn blood spot programme as defined in the current version of 'Sickle Cell and Thalassaemia in pregnancy screening: laboratory QA evidence requirements' for antenatal and newborn screening	A
Dried Blood Spots	Hb A Hb F Hb S Hb C Hb D Hb E Hb O 'Arab'	BSU.SOP.058, 059, 066, 067, 160, 161,	
Blood	Adult Haemoglobinopathy analysis (including Antenatal) by detection of haemoglobin variants:  Hb A Hb A2 Hb S Hb C Hb D Hb E Hb O (Arab)	Sebia CapillaryS 2 Flex piercing analyser using Capillary electrophoresis:  BSU.SOP.196, 199, 144, 207, 208	A





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HUMAN BODY FLUIDS (cont'd)	<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:	
EDTA Packed red cells	Blood Group by detection and identification of antigens and antibodies: A Positive B Positive O Positive AB Positive A Negative B Negative O Negative AB Negative	BioRad IH-1000 analyser and DiaMed gelstation analyser: BSU.SOP.017 BSU.SOP.007	A, B
EDTA Whole Blood/plasma	Antibody Screen by detection of antibodies to:  Rh which includes anti-C, D, C, E, c, e, f, C <sup>w</sup> K, k, Kp <sup>a</sup> , Kp <sup>b</sup> , Xg <sup>a</sup> Fy <sup>a</sup> , Fy <sup>b</sup> , Jk <sup>a</sup> , Jk <sup>b</sup> , Le <sup>a</sup> , Le <sup>b</sup> S, s, M, N P <sub>1</sub> Lu <sup>a</sup> , Lu <sup>b</sup>	BioRad IH-1000 analyser and DiaMed gelstation analyser: BSU.SOP.017 BSU.SOP.007	A, B
Blood	Automated red cell phenotyping:: C,c E,e K	BioRad IH-1000 analyser and DiaMed gelstation analyser: BSU.SOP.017 BSU.SOP.007	A, B



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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:	
EDTA Whole Blood/plasma	Antibody identification by detection of antibodies to:  Rh which includes anti-C, D, C, E, c, e, f, C <sup>w</sup> , K, k, Kp <sup>a</sup> , Kp <sup>b</sup> , Xg <sup>a</sup> , Fy <sup>a</sup> , Fy <sup>b</sup> , Jk <sup>a</sup> , Jk <sup>b</sup> , Le <sup>a</sup> , Le <sup>b</sup> , S, s, M, N, P <sub>1</sub> , Lu <sup>a</sup> , Lu <sup>b</sup>	Diamed Antibody panels and cards in conjunction with DiaMed incubator and centrifuge BSU.SOP.024  Diamed reagents and cards in conjunction with DiaMed incubator and centrifuge BSU.SOP.024	A, B
Blood	Red cells antigen phenotyping Fya Fyb JKa JKb S,s A1	As above	A
Blood	Crossmatching	DiaMed gelstation for crossmatching: BSU.SOP.044	A, B
Blood	DAT	Gelstation analyser: BSU.SOP.007	A, B
Blood	Eluate	Immucor Eluate kit BSU.SOP.024	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: Manual test using donor cells and DiaMed/BioRad IgG cards: BSU.SOP.024	A
Blood	Antibody Titration:  C E, e K S, s Fy <sup>a</sup> , Fy <sup>b</sup> M A Jk <sup>a</sup> , Jk <sup>b</sup> Lu <sup>a</sup>		
Serum/Plasma unless otherwise stated	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	Documented in house methods and manufacturers instructions for  Abbott Architect C16000 using ISE, Turbidimetry and colourimetry BSU.SOP.086	A, B
Plasma Serum, plasma, urine	Albumin Alkaline Phosphatase ALT Ammonia Amylase ACE AST Calcium Chloride Cholesterol CK Total CO2 Conjugated bilirubin CRP Creatinine Digoxin Gamma GT Glucose HDL Iron		A only
Serum, plasma, urine Serum, plasma, urine			
Serum only			
Plasma, CSF, Urine			





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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis: (cont'd)</u>	Documented in house methods and manufacturers instructions for	
Serum/Plasma unless otherwise stated		Abbott Architect C16000 using ISE, Turbidimetry and colourimetry BSU.SOP.086	A, B
Plasma, CSF	Lactate		
Serum	LDH		
Urine	Lithium		
	Magnesium		
Serum, plasma, urine	Microalbumin		
Serum, plasma, urine	Paracetamol		
	Phosphate		
Serum, plasma, urine	Potassium		
	Salicylate		
	Sodium		
Serum, plasma, CSF	Total bilirubin		
	Total protein		
	Transferrin		
Serum, plasma, urine	Triglycerides		
Serum, plasma, urine	Urate		
	Urea		
Serum	Bile acids	Abbott Architect C analyser using spectrophotometric enzyme cycling	A
		Vitech advanced micro osmometer 3300 using freezing point depression: BSU.SOP.198	
Serum, Plasma, Urine	Osmolality		A, B
		Sherwood 926S chloride analyser using coulometric titration BSU.SOP.346	
Sweat	Sodium Chloride		A, B
		Abbott architect C8000 analyser using particle enhanced turbidimetric inhibition immunoassay and Colourimetry BSU.SOP.192	
Urine	Creatinine		A
Serum, plasma	Carbamazepine		
Urine	Oxalate		
Urine	Citrate		
Serum, Plasma	Phenobarbitone		
Serum	Phenytoin		
Serum	Valproate		
Serum	Theophylline		



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis: (cont'd)</u>	Documented in house methods and manufacturers instructions for	
CSF	Xanthochromia	NorthStar UVIKON spectrophotometer: BSU.SOP.331	A
Serum	25 OH Vitamin D	Architect i2000 immunoassay analyser using CMIA technology: BSU.SOP.090	A, B
Serum	Active B12		
Serum, plasma, urine	Cortisol		
Serum	Ferritin		
EDTA	Folate		
Serum	Free T3		
Serum	Free T4		
Serum	FSH		
Serum, plasma	Gentamicin		
Serum, plasma	PTH		
Serum	LH		
Serum	Oestradiol		
Serum	Progesterone		
Serum	Prolactin		
Serum	PSA		
Serum	SHBG		
Serum	Total HCG		
Serum, plasma	Troponin I		
Serum	TSH		
Serum, plasma	Vancomycin		
Serum	Vitamin B12		
Serum	AFP	Architect i2000 immunoassay analyser using CMIA technology: BSU.SOP.090	B only
Serum	CA12-5		
Serum	CA19-9		
Serum	CEA		



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis: (cont'd)</u>	Documented in house methods and manufacturers instructions for	
Serum	TPO abs	Architect i2000 immunoassay analyser using CMIA technology: BSU.SOP.090	A only
urine	Cortisol		
EDTA	Cyclosporin		
EDTA	FK506		
Serum, plasma	Macroprolactin		
EDTA	Tacrolimus		
Serum	Testosterone		
Plasma	Total Homocysteine		
EDTA	Red cell folate		
Serum/Plasma	NT Pro-BNP		A
	Amino Acids:	Biochrom 30+ Amino acid analyser using Ion exchange HPLC:	A
Urine, plasma, CSF	Aspartate		
	Glutamate		
	Hydroxyproline		
	Serine		
	Glycine		
	Glutamine		
	Taurine		
	Histidine		
	Citrulline		
	Threonine		
	Alanine		
	Beta amino isobutyrate		
	Arginine		
	Proline		
	Alpha amino butyrate		
	Tyrosine		
	Valine		
	Methionine		
	Cystine		
	Isoleucine		
	Leucine		
	Phenylalanine		
	Tryptophan		
	Ornithine		
	Lysine		
	Total homocystine		
Urine	5HIAA		A



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis: (cont'd)</u>	Documented in house methods and manufacturers instructions for	
Serum, plasma	Beta carotenes	HPLC with UV detection using Agilent HPLC and Jasco, Thermo AS1000	A
Serum	Vitamin A	BSU.SOP.091	
Serum, plasma	Vitamin E		
	Iohexol clearance	BSU.SOP.088, 087, 068,	
	Lamotrigine		
	Amiodarone		
	N-desethylamiodarone		
Urine, plasma	Catecholamines	Reverse phase HPLC with electrochemical detection using Agilent HPLC and Jasco, Thermo AS1000:	A
Urine	Metadrenalines	BSU.SOP.338	
Serum, Plasma	Vitamin A	BSU.SOP.092	
Serum, plasma	Vitamin E	BSU.SOP.091	
Urine	HVA and VMA		
Bloodspot	Congenital hypothyroidism screen (newborn screening)	Perkin Elmer Genetic Screening Processr (GSP) using time resolved fluoroimmunoassay: Documented In-House Methods to meet the requirements of the NBS Programme handbook as defined in the current version of 'Newborn blood spot screening: laboratory QA evidence requirements' for newborn screening	A
	Cystic fibrosis screen	BSU.SOP.326	
	TSH	BSU.SOP.325, 323, 357	
	IRT		
Bloodspot	Haemoglobin	Sebia Capillary Electrophoresis: BSU.SOP.161	A



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Bloodspot	Glutaric Aciduria Type 1 screen for C5DC Homocysteinuria screen for methionine Isovaleria Aciduria screen for C5 Maple syrup Urine disease screen for Leucine Medium chain Acyl-CoA dehydrogenase deficiency screen for C8 and C10 Phenylalanine screen for phenylalanine and tyrosine PKU monitoring for phenylalanine and tyrosine	Liquid Chromatography/MS using Waters aquity: Documented In-House Methods to meet the requirements of the NBS Programme handbook as defined in the current version of 'Newborn blood spot screening: laboratory QA evidence requirements' for newborn screening TQDSH.OP.CRIS314  BSU.SOP.186	A
Plasma Plasma Serum Serum	ACTH Erythropoietin Growth Hormone IGF-1	Siemens immulite XP using Chemiluminescent enzyme immunoassay technology: BSU.SOP.219	A
EDTA whole blood	Glycated HbA1c	Tosoh G11 ion exchange HPLC: BSU.SOP.159	A, B
Urine	Urine Volume	24 hrs urine volume calculated by weight: BSU.SOP.396	A, B
END			