


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO 15189:2012	St George's University Hospitals NHS Foundation Trust	
	Issue No: 005 Issue date: 01 May 2021	
	SWLP Department of Blood Sciences Epsom and St Helier University Hospitals St Helier Hospital Wrythe Lane Surrey SM5 1AA	Contact: Asam Saeed Tel: +44 (0)208296553 E-Mail:Asam.Saeed@nhs.net

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 Department of Blood sciences St Helier Hospital Wrythe Lane Carshalton SM5 1AA	Local contact Asam Saeed	<ul style="list-style-type: none">• Routine Haematology• Blood fridges• Biochemistry• Special chemistry• Neonatal screening	A
Department of Blood Sciences Epsom General Hospital Dorking Road Epsom KT18 7EG	Asam Saeed	<ul style="list-style-type: none">• Routine Haematology• Blood Transfusion• Blood fridges• Biochemistry	B

Blood fridge locations aware from the laboratory:

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



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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	
Blood	Quantitative determination of FBC to include: Haemoglobin Platelets White cell count MCV RBC MCH MCHC RDW HCT Neutrophils Lymphocytes Monocytes Eosinophils Basophils	Sysmex XE 5000 using light scatter, impedance count and colorimetric technology: BSU.SOP.180	A, B
Blood	ESR	Vescube 200 using level sensing: BSU.SOP.089	A, B
Blood films	Red cell, white cell and platelet morphology and white cell differential	Manual staining and automate (SP1000i) using MGG stain and light microscopy: BSU.SOP.174, 195, 170, 202, 212	A
Bone Marrow	All cell types	BSU.SOP.170 and BSU.SOP.046	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, 363, 364, 365	A



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examination activities for the purposes of clinical diagnosis</u> (cont'd):	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
Blood	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 HbG		
Blood	G6PD enzyme	Trinity Biotech G6PDH kit and Jenway spectrophotometer BSU.SOP.001	A



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examination activities for the purposes of clinical diagnosis</u> (cont'd):	Documented in house methods and manufacturers instructions for	
Dried Blood Spots	Neonatal Haemoglobinopathy analysis by detection of haemoglobin variants: Hb A Hb F Hb S Hb C Hb D Hb E Hb O Barts	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 Thalassemia in pregnancy screening: laboratory QA evidence requirements' for antenatal and newborn screening BSU.SOP.058, 059, 066, 067, 160, 161, 162	A
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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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Blood</p>	<p><u>Haematological examination activities for the purposes of clinical diagnosis</u> (cont'd):</p> <p>Routine Coagulation Screen to include: PT/INR calculated test INR APTT Fibrinogen D dimer Thrombin time Anti thrombin Protein C Protein S VWF Xa assay Factor assays Lupus screen</p>	<p>Documented in house methods and manufacturers instructions for</p> <p>CS2100i using clot detection unless otherwise stated: BSU.SOP.045/BSU.SOP.630</p> <p>BSU.SOP.045 Latex agglutination: BSU.SOP.242 BSU.SOP.056 Chromogenic: BSU.SOP.903 BSU.SOP.904 BSU.SOP.050 Latex agglutination: BSU.SOP.374 Chromogenic: BSU.SOP.051 BSU.SOP.894 BSU.SOP.299</p>	<p>A, B</p> <p>A A A A A A A A</p>



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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 ^w K, k, Kp ^a , Kp ^b , Xg ^a Fy ^a , Fy ^b , Jk ^a , Jk ^b Le ^a , Le ^b S, s, M, N P ₁ Lu ^a , Lu ^b	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 ^w , K, k, Kp ^a , Kp ^b , Xg ^a , Fy ^a , Fy ^b , Jk ^a , Jk ^b , Le ^a , Le ^b , S, s, M, N, P ₁ , Lu ^a , Lu ^b	Diamed Antibody panels 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	Diamed reagents and cards in conjunction with DiaMed incubator and centrifuge BSU.SOP.024 As above	A
Blood	Crossmatching	DiaMed gelstataion for crossmatching: BSU.SOP.044	A, B
Blood	DAT	Gelstataion 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:	
Blood	Antibody Titration: C E, e K S, s Fy ^a , Fy ^b M A Jk ^a , Jk ^b Lu ^a	Manual test using donor cells and DiaMed/BioRad IgG cards: BSU.SOP.024	A
Serum/Plasma unless otherwise stated	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	Documented in house methods and manufacturers instructions for	
Plasma	Albumin	Abbott Architect C16000 using ISE, Turbidimetry and colourimetry	A, B
Serum, plasma, urine	Alkaline Phosphatase	BSU.SOP.086	
Serum, plasma, urine	ALT		
Serum, plasma, urine	Ammonia		
Serum, plasma, urine	Amylase		
Serum, plasma, urine	ACE		
Serum, plasma, urine	AST		
Serum, plasma, urine	Calcium		
Serum, plasma, urine	Chloride		
Serum, plasma, urine	Cholesterol		
Serum, plasma, urine	CK		
Serum, plasma, urine	Total CO2		
Serum, plasma, urine	Conjugated bilirubin		
Serum, plasma, urine	CRP		
Serum, plasma, urine	Creatinine		
Serum, plasma, urine	Digoxin		
Serum, plasma, urine	Gamma GT		
Serum, plasma, urine	Glucose		
Serum, plasma, urine	HDL		
Serum, plasma, urine	Iron		



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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 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		
Serum, plasma, urine	Magnesium		
Serum, plasma, urine	Microalbumin		
Serum, plasma, urine	Paracetamol		
Serum, plasma, urine	Phosphate		
Serum, plasma, urine	Potassium		
Serum, plasma, urine	Salicylate		
Serum, plasma, urine	Sodium		
Serum, plasma, CSF	Total bilirubin		
Serum, plasma, urine	Total protein		
Serum, plasma, urine	Transferrin		
Serum, plasma, urine	Triglycerides		
Serum, plasma, urine	Urate		
Serum, plasma, urine	Urea		
Serum, Plasma, Urine	Osmolality	Vitech advanced micro osmometer 3300 using freezing point depression: BSU.SOP.198	A, B
Sweat	Sodium Chloride	Sherwood 926S chloride analyser using coulometric titration BSU.SOP.346	A, B
Urine	Creatinine	Abbott architect C8000 analyser using particle enhanced turbidimetric inhibition immunoassay and Colourimetry BSU.SOP.192	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:</u> (cont'd)	Documented in house methods and manufacturers instructions for	
CSF	Xanthochromia	NorthStar UVIKON spectrophotometer: BSU.SOP.331	A B
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:</u> (cont'd)	Documented in house methods and manufacturers instructions for	
Serum urine EDTA EDTA Serum, plasma EDTA Serum Plasma EDTA	TPO abs Cortisol Cyclosporin FK506 Macroprolactin Tacrolimus Testosterone Total Homocysteine Red cell folate	Architect i2000 immunoassay analyser using CMIA technology: BSU.SOP.090	A only
Urine, plasma, CSF	Amino Acids: 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 homocysteine	Biochrom 30+ Amino acid analyser using Ion exchange HPLC:	A



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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 manufacturers instructions for	
Serum, plasma	Beta carotenes Vitamin A Vitamin E	HPLC with UV detection using Agilent HPLC and Jasco, Thermo AS1000 BSU.SOP.091	A
Serum Serum, plasma	Iohexol clearance Lamotrigine Amiodarone N-desethylamiodarone	BSU.SOP.088, 087, 068,	
Urine, plasma Urine Serum, Plasma Serum, plasma Urine	Catecholamines Metadrenalines Vitamin A Vitamin E HVA and VMA	Reverse phase HPLC with electrochemical detection using Agilent HPLC and Jasco, Thermo AS1000: BSU.SOP.338 BSU.SOP.092 BSU.SOP.091 SH.OP>CHPLC097.009	A
Bloodspot	Congenital hypothyroidism screen Cystic fibrosis screen TSH	Perkin Elmer AutoDelfia 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 BSU.SOP.326	A
Bloodspot	Haemoglobin	BSU.SOP.325 BSU.SOP.110 Sebia Capillary Electrophoresis: BSU.SOP.161	A
Faeces	Calprotectin	Elia Calprotectin 2 method using the Phadia immunocap 250 automated ELISA: BSU.SOP.338	A
Faeces	Pancreatic elastase	Manual Schebo Biotech ELISA kit: SH.OP.CMAN303	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: SH.OP.CHEM054	A, B
END			