


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>21781</b> Accredited to ISO 15189:2012	<b>Buckinghamshire Healthcare NHS Trust</b>	
	<b>Issue No: 002 Issue date: 26 July 2024</b>	
	<b>Blood Sciences Laboratory</b> <b>Stoke Mandeville Hospital</b> <b>Mandeville Road,</b> <b>Aylesbury,</b> <b>HP21 8AL</b>	<b>Contact: Venkat Nadella</b> <b>Tel: +44 (0) 01296 315355</b> <b>E-Mail: venkat.nadella@nhs.net</b> <b>Website: /www.buckshealthcare.nhs.uk/</b>
<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
Blood Sciences Laboratory Pathology Laboratory Stoke Mandeville Hospital Stoke Mandeville Local contact: Venkat Nadella	Haematology Biochemistry Blood Transfusion Immunology	A
Blood Sciences Laboratory Pathology Laboratory Wycombe Hospital, Queen Alexandra Road, High Wycombe, Bucks Local contact: Venkat Nadella	Haematology Biochemistry Blood Transfusion	B

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

Location details	Activity
Stoke Mandeville Hospital – New Wing	Storage of Blood products
Stoke Mandeville Hospital – Maternity	Storage of Blood products
Stoke Mandeville Hospital – Cancer Care and Haematology Day Unit	Storage of Blood products
Wycombe Hospital – Cancer Care and Haematology Day Unit	Storage of 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 purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:  Photometric assays <b>Location A</b> = Abbott Architect C8000/C16000 <b>Location B</b> = Abbott Architect C8000 BS-SOP-B7	
Blood	Alanine Transferase		A,B
Blood	Alkaline Phosphatase		A,B
Blood, Urine	Amylase		A,B
Blood	AST		A,B
Blood	Bicarbonate		A,B
Blood	Cholesterol		A,B
Blood	Creatine Kinase		A,B
Blood	Gamma Glutamyl Transferase		A,B
Blood	LDH		A,B
Blood	LDL Cholesterol – Friedewald calculation		A,B
Blood	Triglycerides		A,B
Blood	Ethanol		A,B
Urine	Calcium		A,B
Blood	Corrected Calcium - calculated		A,B
Blood, Urine	Creatinine – enzymatic method		A,B
Blood	eGFR – MDRD calculation		A,B
Blood, Urine	Magnesium		A,B
Blood, Urine	Phosphate (inorganic)		A,B
Blood, Urine	Urea		A,B
Blood, Urine	Uric Acid		A,B
Blood	Paracetamol		A,B



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HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:  Enzymatic Colourimetric assays <b>Location A</b> = Abbott Architect C8000/C16000 <b>Location B</b> = Abbott Architect C8000 BS-SOP-B7	



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Human Body Fluids (cont'd)  Serum or Plasma unless otherwise stated:	Biochemistry examination activities for the purpose of clinical diagnosis: (cont'd)	Abbott Architect C8000/C16000 Stoke Mandeville Abbott Architect C16000 x 1 and C8000 x 2 and ISR 2000 x 2 and standalone ISR2000 Wycombe Hospital Abbott Architect Chemistry/ISR2000 Enzymatic Colourimetric and in-house method: BS SOP B7	
Blood	ACE		B
Blood	Salicylate		A,B
Blood	Ammonia		A,B
Blood	Ethanol (repeat test)		A,B
Blood	Glucose		A,B
Blood	Lactate		A,B
Blood	Glucose		A,B
Blood, CSF	Lactate (repeat test)		A,B
Blood, CSF	Total Protein		A,B
		Colourimetric assays <b>Location A</b> = Abbott Architect C8000/C16000 <b>Location B</b> = Abbott Architect C8000 BS-SOP-B7	A,B
Blood, urine	Albumin		A,B
Blood	Bilirubin		A,B
Blood	Bilirubin Direct		A,B
Blood	Bilirubin Indirect - calculated		A,B
Blood	Iron		A,B
Blood	Lithium		A,B
Blood, urine	Total Protein		A,B
Blood	Total Globulins - calculated		A,B
Blood	Bile Acids		A



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HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:  Immunoturbidimetric assays <b>Location A</b> = Abbott Architect C8000/C16000 <b>Location B</b> = Abbott Architect C8000 BS-SOP-B7	
Blood Blood Urine	C-Reactive Protein Transferrin Microalbumin	Particle-enhanced turbidimetric inhibition immunoassay – (PETINA) <b>Location A</b> = Abbott Architect C8000/C16000 <b>Location B</b> = Abbott Architect C8000 BS-SOP-B7	A,B A,B A,B
Blood Blood Blood Blood	Digoxin Gentamicin Vancomycin Teicoplanin	Ion selective electrode (ISE) Indirect assays <b>Location A</b> = Abbott Architect C8000/C16000 <b>Location B</b> = Abbott Architect C8000 BS-SOP-B7	A,B A,B A,B A
Blood, urine Blood, urine Blood, urine	Chloride Potassium Sodium		A,B A,B A,B



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HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:  Enzyme Immunoassay <b>Location A</b> = Abbott Architect C8000/C16000 <b>Location B</b> = Abbott Architect C8000 BS-SOP-B7	
Blood	Phenytoin		A,B
Blood	Theophylline		A,B
Blood	Carbamazepine		A
Blood	Sodium Valproate		A
		Chemiluminescent Microparticle Immunoassay (CMIA) – non-competitive <b>Location A</b> = Abbott Architect ISR 2000 <b>Location B</b> = Abbott Architect ISR2000 BS-SOP-B8	
Blood	NT Pro-BNP		A,B
Blood	Alpha Fetoprotein		A,B
Blood	Anti TPO		A,B
Blood	Beta hCG		A,B
Blood	Carcino Embryonic Antigen (CEA)		A,B
Blood	CA125		A,B
Blood	CA153		B
Blood	CA 199		A,B
Blood	Ferritin		A,B
Blood	Folate		A,B
Blood	Free T3		A,B
Blood	Free T4		A,B
Blood	FSH		A,B
Blood	Luteinising Hormone		A,B
Blood	Oestradiol		A,B
Blood	Macroprolactin – PEG dilution	BS-SOP-B10	A,B
Blood	Cortisol		A,B
Blood	Progesterone		A,B



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HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:  Chemiluminescent Microparticle Immunoassay (CMIA) – non-competitive <b>Location A</b> = Abbott Architect ISR 2000 <b>Location B</b> = Abbott Architect ISR2000 BS-SOP-B8	
Blood	Prolactin		A,B
Blood	Procalcitonin		A
Blood	Total Prostate Specific Antigen		A,B
Blood	Testosterone		A,B
Blood	Thyroid Stimulating Hormone		A,B
Blood	Free Androgen Index-calculation		A,B
Blood	High Sensitivity Troponin I		A,B
Blood	Vitamin B12		A,B
Blood	Vitamin D		A,B
Blood	SHBG		A
Blood	Intact Parathyroid Hormone	Chemiluminescent Microparticle Immunoassay (CMIA)-non-Sandwich assay <b>Location A</b> = Abbott Architect ISR 2000 <b>Location B</b> = Abbott Architect ISR2000 BS-SOP-B8	A,B
CSF	Xanthochromia	UVIKON XS double beam UV/Visible Spectrophotometer BS-SOP-B3	A
Sweat	Sweat Conductivity	Westcor SweatChek BS-SOP-B6	B
Sweat	Sweat chloride	Chlorocheck BS-SOP-B6	B



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HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:	
Blood, urine	Osmolality	Vitech Scientific Osmo1 BS-SOP-B15	A,B
Faeces	Calprotectin	Diasorin Liaison ELISA BS-SOP-B6	A
Blood	HbA1c	BioRad D100 HPLC BS-SOP-B4	A
		Helena SAS-3 & SAS-4 Agarose gel electrophoresis BS-SOP-IV18 BS-SOP-IV43 BS-SOP-IV44 BS-SOP-IV45 BS-SOP-IV46	
Blood Urine Urine	Serum immunofixation Urine electrophoresis Urine fixation		A A A
		Helena V8 Capillary zone electrophoresis BS-SOP-IV18 BS-SOP-IV43 BS-SOP-IV44 BS-SOP-IV45 BS-SOP-IV46 BS-SOP-IV47	
Blood Blood Blood	Serum electrophoresis Serum immunodisplacement Paraprotein quantitation		A A A



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HUMAN BODY FLUIDS	<u>Haematology examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:  Differential laser light scatter using Sysmex XN automated analysers <b>Location A</b> = XN20 & XN10 <b>Location B</b> = XN20 & XN10 BS-SOP-H10	
Whole Blood (EDTA)	Haemoglobin		A,B
Whole Blood (EDTA)	White Blood Cell Count		A,B
Whole Blood (EDTA)	Red Blood Cell Count		A,B
Whole Blood (EDTA)	Haematocrit		A,B
Whole Blood (EDTA)	Mean Corpuscular Volume (MCV)		A,B
Whole Blood (EDTA)	Mean Corpuscular Haemoglobin (MCH)		A,B
Whole Blood (EDTA)	Mean Corpuscular Haemoglobin Concentration (MCHC)		A,B
Whole Blood (EDTA)	Platelet Count		A,B
Whole Blood (EDTA)	Red Cell Distribution Width (standard deviation)		A,B
Whole Blood (EDTA)	Red Cell Distribution Width (coefficient variation)		A,B
Whole Blood (EDTA)	Platelet distribution width		A,B
Whole Blood (EDTA)	Mean Platelet Volume		A,B
Whole Blood (EDTA)	Platelet large cell ratio		A,B
Whole Blood (EDTA)	Platelet Citrate count		A,B
Whole Blood (EDTA)	Nucleated Red Blood Cell Count		A,B
Whole Blood (EDTA)	Neutrophil Absolute Count and %		A,B
Whole Blood (EDTA)	Lymphocyte Absolute Count and %		A,B
Whole Blood (EDTA)	Monocyte Count Absolute Count and %		A,B
Whole Blood (EDTA)	Eosinophil Absolute Count and %		A,B
Whole Blood (EDTA)	Basophil Absolute Count and %		A,B



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HUMAN BODY FLUIDS	<u>Haematology examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:  Differential laser light scatter using Sysmex XN automated analysers <b>Location A</b> = XN20 & XN10 <b>Location B</b> = XN20 & XN10 BS-SOP-H10	
Whole Blood (EDTA)	Immature Granulocyte Count		A,B
Whole Blood (EDTA)	Reticulocyte Count Absolute Count and %		A,B
Whole Blood (EDTA)	Immature Reticulocyte Fraction		A,B
Whole Blood (EDTA)	Reticulocyte Haemoglobin equivalent		A,B
Whole Blood (EDTA)	Immature Platelet Fraction		
Whole Blood (EDTA)	Erythrocyte Sedimentation Rate (ESR)	Vitech Starrsed analyser automated ESR BS-SOP-H12	A,B
Whole Blood (EDTA)	Erythrocyte Sedimentation Rate (ESR)	Westergren method using Monvette pipettes BS-SOP-H11	A,B
Whole Blood (EDTA)	Detection of Morphological Structure.	Microscopy manual blood film examination BS-SOP-H23  Transfer of blood films between laboratories BS-SOP-H24	A,B
Bone Marrow	Detection of Morphological Structure	Manual Bone Marrow Film Staining (Perls Iron Stain) & Microscopy BS-SOP-H8 BS-SOP-H18	A,B



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HUMAN BODY FLUIDS	<u>Haematology examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:	
Whole Blood (EDTA)	Detection and identification of malarial parasites: Plasmodium falciparum Plasmodium vivax Plasmodium ovale Plasmodium malariae Trypanosomes Microfilariae	Staining and Microscopy Morphological examination Blood Borne Parasite Thin film (Giemsa stain) Thick film (Field's stain) BS-SOP-H8  Documented in-house methods to meet the requirements of the Sick cell and Thalassaemia (SCT) screening programme(s) as defined in the laboratory QA evidence requirement	A,B
Whole Blood (EDTA)	Detection and identification of abnormal Haemoglobins A1, A2 and F and confirmation of Haemoglobin C, S, D and E	BioRad Variant II HPLC BS -SOP-H2	A
Whole Blood (EDTA)	Sickle solubility	Clin-tech sickle test screening kit BS-SOP-H10	A



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HUMAN BODY FLUIDS	<u>Coagulation examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:  Sysmex CS-5100/CS2500 analysers	
Citrated Plasma	INR/Prothrombin time (PT)	Siemens Dade Innovin Reagent BS-SOP-C19 (PT/INR)	A,B
Citrated Plasma	Derived Fibrinogen	Master curve provided by Siemens during PT determinations BS-SOP-C19 (Derived fibrinogen)	A,B
Citrated Plasma	Clauss Fibrinogen	Siemens (Dade Behring) Thrombin assay BS-SOP-C06 (Clauss Fibrinogen)	A,B
Citrated Plasma	Thrombin time	Siemens Thromboclotin BS-SOP-C13 (Thrombin time)	A,B
Citrated Plasma	D-dimer	Siemens Innovance D-Dimer (PETINA) BS-SOP-C07(D dimer)	A,B
Citrated Plasma	Antithrombin III	Siemens Berichrom Antithrombin III Assay - quantitative kinetic test BS-SOP-C22	A
Citrated Plasma	Factor assays (VIII, IX, XI, XII) Factor IX	Siemens (Dade Behring) BS-SOP-C18 (Factor IX assay)	A
Citrated Plasma	Factor XI	Siemens (Dade Behring) BS-SOP-C27 (Factor XI)	A
Citrated Plasma	Factor VIII	Siemens One-Stage Factor VIII Assay - measured with APTT assay BS-SOP-C17	A



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HUMAN BODY FLUIDS	<u>Coagulation examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:  Sysmex CS-5100/CS2500 analysers	
Citrated Plasma	Lupus anticoagulant	Siemens (Dade) Actin FSL APTT reagent & DRVV BS-SOP-C05 (LA)  Sysmex CS-5100 analysers	A  A
Citrated Plasma	Low Molecular Weight Heparin	Biophen Heparin LRT - chromogenic anti-Xa method BS-SOP-C09 (LMWH)	A
Citrated Plasma	Protein C	Sysmex Berichrom Protein C Assay - chromogenic BS-SOP-C26 (Protein C)	A
Citrated Plasma	Protein S	Sysmex Innovance Free PS Antigen Assay – turbidimetric BS-SOP-C23 (Protein S)	A
Citrated Plasma	Apixaban	Biophen Heparin LRT Assay (Anti-Xa) - chromogenic anti-Xa method BS-SOP-C10 (Apixaban)	A
Citrated Plasma	Rivaroxaban	Chromogenic anti-Xa method BS-SOP-C11 (Rivaroxaban)	A
Citrated Plasma	Dabigatran	Hyphen BioMed Hemoclot Thrombin Inhibitors assay BS-SOP-C20 (Dabigatran)	A



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HUMAN BODY FLUIDS	<u>Transfusion examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:  Automated- Ortho Vision using Column Gel Technology BS-SOP-BT3	
Whole Blood (EDTA)	A Rh D Positive		A,B
Whole Blood (EDTA)	B Rh D Positive		A,B
Whole Blood (EDTA)	AB Rh D Positive		A,B
Whole Blood (EDTA)	O Rh D Positive		A,B
Whole Blood (EDTA)	A Rh D Negative		A,B
Whole Blood (EDTA)	B Rh D Negative		A,B
Whole Blood (EDTA)	AB Rh D Negative		A,B
Whole Blood (EDTA)	O Rh D Negative		A,B
		Ortho diagnostics Biovue IgG cards Biovue Neutral cards Resolve panel C (antibody panels) BioRad IgG grouping and DAT cassettes Indirect antiglobulin test Enzyme method Exclusion method (antibody panels) Manual method BS-SOP-BT25	
Whole Blood (EDTA)	Rh - C,D,E,c,e,Cw		A,B
Whole Blood (EDTA)	Kell - K, Kpa ,k		A,B
Whole Blood (EDTA)	Duffy - Fya, Fyb		A,B
Whole Blood (EDTA)	MNSs - M, N, S, s		A,B
Whole Blood (EDTA)	Kidd - Jka, Jkb		A,B
Whole Blood (EDTA)	Lewis - Lea + Leb		A,B
Whole Blood (EDTA)	Lutheran - Lua		A,B
Whole Blood (EDTA)	P - P1		A,B
Whole Blood (EDTA)	Direct Antiglobulin Test (DAT)	Ortho Vision System DAT/IDAT cassettes Manual method BS-SOP-BT11	A,B
Whole Blood (EDTA)	Rh/K Phenotype (CcEeK)	Ortho Vision System BS-SOP-BT58	A,B



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HUMAN BODY FLUIDS	<u>Transfusion examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:	
Whole Blood (EDTA)	Serological compatibility testing	Manual method BS-SOP-BT12	A,B
Blood film	Foetal Kleihauer	Manual method acid elution BS-SOP-BT8	A,B
Whole Blood (EDTA)	Antibody panels	Manual method using Ortho Biovue IgG and neutral cards  BioRad IgG and neutral cards	A,B
Whole Blood (EDTA)	Red Cell phenotype	Manual method using Ortho IgG or neutral cards  Tube methods	A,B
END			