


# 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 8858</p> <p>Accredited to ISO 15189:2012</p>	<p><b>The Shrewsbury and Telford Hospital NHS Trust</b></p> <p>Issue No: 004 Issue date: 25 October 2021</p>	
	<p>Department of Pathology Royal Shrewsbury Hospital Mytton Oak Road Shrewsbury SY3 8XQ United Kingdom</p>	<p>Contact: Mrs Andrea Rhodes-Green Tel: +44 (0) 1743 261000 Ext 3587 E-Mail: andrea.rhodes-Green@nhs.net Website: www.sath.nhs.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

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

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> The Shrewsbury &amp; Telford Hospitals NHS Trust-RSH Department of Pathology Royal Shrewsbury Hospital Mytton Oak Road Shrewsbury SY3 8XQ United Kingdom</p> <p><b>Local contact</b> Andrea Rhodes-Green Blood Sciences Quality Manager</p>	<p>General Biochemistry Immunoassay Metabolic Biochemistry Haematology Coagulation Blood Transfusion</p>	RSH-A
<p><b>Address</b> Department of Pathology The Princess Royal Hospital-PRH Apley Castle Telford Shropshire TF1 6TF United Kingdom</p> <p><b>Local contact</b> Andrea Rhodes-Green Blood Sciences Quality Manager</p>	<p>General Biochemistry Immunoassay Metabolic Biochemistry Haematology Coagulation Blood Transfusion</p>	PRH-B
<p><b>Address</b> Department of Pathology The Robert Jones and Agnes Hunt -RJAH Orthopaedic Hospital Gobowen Oswestry Shropshire SY10 &amp;AG United Kingdom</p> <p><b>Local contact</b> Andrea Rhodes-Green Blood Sciences Quality Manager</p>	<p>General Biochemistry Haematology Coagulation Blood Transfusion</p>	RJAH-C



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**Site activities performed away from the main laboratory location listed above:**

Location details	Activity
Victoria Memorial Hospital Salop Road Welshpool, Powys SY21 7DU  Bridgenorth Community Hospital Northgate, Old Smithfield, Bridgnorth WV16 4EU	Blood storage only Blood Fridges managed by laboratory  Blood storage only Blood Fridges managed by laboratory



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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>	Documented in house methods and manufacturer's instructions where relevant	<b>A-RSH B-PRH C- RJAH</b>
Blood	HbA1c	Sebia Capillarys 3 TERA Capillary Electrophoresis SOP BIO-CAP3HB	A
Blood	HbA1C	Menarini Hb9210 Boronate Affinity HPLC Hba1c by Menarini 9210 System (HBA1C)	B
Blood Serum	<u>Protein Analysis</u> Identification of monoclonal proteins	Documented in-house procedure Measurement by Immunofixation electrophoresis using the Hydrasys 2 SOP IFSerum for analysis using the Hydrasys 2 systems	A
Urine	Detection of free light chains (Bence Jones protein)	Documented in-house procedure Measurement by Immunofixation electrophoresis using the Hydrasys 2 SOP IFUrine for analysis using the Hydrasys 2 systems	A
Blood	Detection of monoclonal proteins	Documented in-house procedure Electrophoresis using the Sebia Capillarys 2 SOP Serum Protein Electrophoresis and Immunosubtraction by Capillarys II (CapSeEPS)	A
Serum	Kappa/Lambda free light chain (FLC)	Documented in-house procedure SOP KapLamSPAPLus for analysis using the Binding Site SPAPLus systems Measurement by Immunoturbidimetric method	A



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	Documented in house methods and manufacturer's instructions where relevant	<b>A-RSH B-PRH C- RJAH</b>
Serum	Total IgE	Roche e801 – measurement by chemiluminescence SOP BIO-ROCHE	A
Serum	RAST including allergens:  Aspergillus fumigatus  Cat Dander Codfish Dog Dander Dust Mite Egg White Food allergens Latex Milk Mixed Nut Panel Mixed seafood panel Peanut Soybean Timothy Grass Wheat	Phadia ImmunoCap 250 Sandwich Immunoassay SOP BIO-ALLCAP250	A
Serum	IgA Tissue Transglutaminase (TTG)	Phadia ImmunoCap 250 Enzyme Immunoassay SOP BIOTTGIMMCAP	A



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HUMAN BODY FLUIDS (cont'd)	<u>Examination activities for the purposes of clinical diagnosis (cont'd):</u>	Documented in house methods and manufacturer's instructions where relevant	<b>A-RSH B-PRH C- RJAH</b>
	<u>Miscellaneous Biochemistry</u>		
	Quantification of:		
CSF	CSF Xanthochromia	Documented in-house procedures SOP BIO-XANTH using the Cecil Spectrophotometer. Measurement by spectrophotometry.	A/B
Serum/Plasma/Urine	Osmolality	Documented in-house procedure SOP Osmo3320 using the Advanced Osmo1. Measurement by Freezing Point Depression.	A/B
Sweat	Sweat Chloride	Documented in-house procedure SOP SweatChlor using the Sherwood Scientific Chloride Analyser 926S. Measurement by titration.	B
		Documented in-house procedure SOP BIO-BLOODGAS using the Siemens Rapidpoint 500 Blood gas analyser	<b>A-RSH B-PRH</b>
blood	PH	Potentiometric (ISE)	A/B
	pCO2	Potentiometric (Severinghaus)	A/B
	pO2	Amperometric (Clarks)	A/B
	TCO2	Potentiometric (ISE)	A/B
	Na, K, Ca Cl,	Potentiometric (ISE)	A
	Glucose, lactate	Amperometric (enzyme electrode)	A
	Co-oximetry	Spectrophotometry	A/B



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HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	Documented in-house procedures SOP-BIO-ROCHE in conjunction with manufacturer's instructions for analysis using the following Roche analysers based on measurement by turbidometry, colourimetry, ion-sensitive electrode (direct and indirect), immunoassay. <b>RSH-c702</b> for spectrophotometric and e801 for immunoassays <b>PRH-c501</b> for spectrophotometric and e601 for immunoassays <b>RJAH-c311</b> for spectrophotometric	<b>A-RSH B-PRH C- RJAH</b>
Serum/Plasma	Albumin	colorimetric	A/B/C
Plasma	Alkaline Phosphatase	colorimetric	A/B/C
Serum/Plasma/Urine	ALT	colorimetric	A/B/C
	Ammonia	colorimetric	A/B
	Amylase	colorimetric	A/B
	AST	2-point-rate	A/B
	Bicarbonate	2-point-rate	A/B
Serum	Bile Acids	colorimetric -SOP BILEACID	B
Serum/Plasma	Bilirubin (Total)	colorimetric	A/B/C
	Calcium (including calculated adjusted calcium)	colorimetric	A/B/C
Urine	Calcium (including calculated calcium excretion and calcium/creatinine ratio)	colorimetric	A/B
Serum/Plasma	Carbamezepine	Immunoturbidimetric	A
	Chloride	Indirect ISE	A/B
	Cholesterol (including calculated Chol/HDL Ratio, HDL Ratio, NonHDL Cholesterol and LDL cholesterol)	Enzymatic colorimetric	A/B
	Conjugated/Unconjugated Bilirubin (BuBc)	colorimetric	A/B
Serum/Plasma	Creatinine (including calculation of eGFR and creatinine clearance and AKI stage)	colorimetric	A/B/C
Urine	Creatinine (including calculation of creatinine excretion)	colorimetric	A/B



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Serum/Plasma	Creatinine Kinase	Rate enzymatic	A/B/C
CSF	Glucose	turbidimetric	A/B
CSF	Protein	Immunoassay	A/B
Serum	Digoxin	enzymatic	A/B/C
Serum/Plasma	Glucose	Enzymatic colorimetric	A/B/C
	Glutamyl transferase (GGT)	Enzymatic colorimetric	A/B
	HDL	colorimetric	B
Plasma	Iron	colorimetric	A/B/C
	Lactate	Rate	A/B
Serum/Plasma	Lactate dehydrogenase (LDH)	Colorimetric	A/B
Serum	Lithium	Colorimetric endpoint	A/B/C
Serum/Plasma	Magnesium	Colorimetric endpoint	A
Urine	Magnesium	Immunoturbidimetric	A
Urine	Microalbumin (including calculation of albumin/creatinine ratio)		
Serum/Plasma	Paracetamol (Acetaminophen)	Colorimetric	A/B
	Phenytoin	Immunoturbidimetric	A
Urine	Phosphate	photometric	A/B/C
	Phosphate (including calculation of phosphate excretion and phosphate/creatinine ratio)	photometric	A/B
Serum/Plasma	Potassium	Indirect ISE	A/B/C
Urine	Potassium (including calculation of potassium excretion)	Indirect ISE	A/B
Serum/Plasma	Rheumatoid Factor	Immunoturbidimetric	A/B



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Serum/Plasma	Salicylate		A/B
Urine	Sodium	Indirect ISE	<b>A/B/C</b>
	Sodium (including calculation of sodium excretion)	Indirect ISE	A/B
Serum/Plasma	Theophylline	turbidimetric	A
Urine	Total Protein	Colorimetric	A/B/C
	Total Protein (including calculated total protein excretion, calculated protein/creatinine ratio and calculated expected protein excretion)	turbidimetric	A/B
Serum/Plasma	Triglyceride	turbidimetric	A/B
Urine	Urate	Enzymatic colorimetric	A/B/C
	Urate (including calculated urate excretion)	Enzymatic colorimetric	A
Serum/Plasma	Urea	2-point-rate	A/B/C
Urine	Urea (including calculated nitrogen excretion and calculated urea excretion)	2-point-rate	A/B
Serum	AFP	Chemiluminiscence	A
	Anti-TPO	Chemiluminiscence	A
	CA-125	Chemiluminiscence	A
	CEA	Chemiluminiscence	A
	Cortisol	Chemiluminiscence	A
	FSH	Chemiluminiscence	A
	FT3	Chemiluminiscence	A





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Serum	FT4 Ferritin Folate Growth Hormone HCG LH NT-proBNP Oestradiol Progesterone Prolactin PSA	Chemiluminiscence Chemiluminiscence Chemiluminiscence Chemiluminiscence Chemiluminiscence Chemiluminiscence Chemiluminiscence Chemiluminiscence Chemiluminiscence Chemiluminiscence Chemiluminiscence Chemiluminiscence	B A/B A/B A B A A A A A A B
Serum			
Serum/Plasma	SHBG	Chemiluminiscence	A
Plasma	Testosterone (including calculation of Free Testosterone)	Chemiluminiscence	A
Serum/Plasma	Troponin T	Chemiluminiscence	A/B
	TSH	Chemiluminiscence	A/B
	Vitamin D	Chemiluminiscence	A
serum	Vitamin B12	Chemiluminiscence	A/B



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<p>HUMAN BODY FLUIDS</p> <p>Serum/Plasma Serum/Plasma Serum Serum/Plasma Serum/Plasma</p>	<p><u>Biochemistry examination activities for the purpose of clinical diagnosis</u></p> <p>Alcohol PTH Anti CCP Anti-Mullerian Hormone CA15-3</p>	<p>Documented in-house procedures SOP-BIO8000-Batch in conjunction with manufacturer's instructions for analysis using the following Roche analysers based on measurement by turbidometry, colourimetry, ion-sensitive electrode (direct and indirect), immunoassay.</p> <p><b>A-RSH-c702</b> for spectrophotometric and e801 for immunoassays</p> <p>Enzymatic Chemilluminescence Chemilluminescence Immunoassay Immunoassay</p>	<p><b>A-RSH</b> <b>B-PRH</b> <b>C- RJAH</b></p> <p>A A A A A</p>



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HUMAN BODY FLUIDS	<u>Haematological examinations for the purpose of clinical diagnosis</u>	Documented in-house procedures SOP-HAE-XNUSE in conjunction with manufacturer's instructions for analysis using the following analysers based on impedance, photometry and Fluorescent flow cytometry methods <b>A-RSH</b> -Sysmex XN10 and XN20 <b>B-PRH</b> - Sysmex XN10 and XN20 <b>C- RJAH</b> -SysmexXN10	<b>A-RSH B-PRH C- RJAH</b>
Blood	<b>Full Blood count</b>  RBC, WBC, Platelets, MCV, MCH, MCHC Neutrophils, Lymphocytes, Monocytes, Eosinophils, Basophils, Haemoglobin (Hb), Differential		A/B/C
Whole Blood	Reticulocyte	Documented in-house procedures SOP-HAE-XNUSE in conjunction with manufacturer's instructions for analysis using the following analysers based on Fluorescent flow cytometry using semi-conductor laser <b>RSH</b> -Sysmex XN10 and XN20 <b>PRH</b> - Sysmex XN10 and XN20	A/B/
EDTA Blood	ESR	Starrsed ESR Analyser Modified Westergren SOP HAE-AUTOESR SOP HAE-ESRST  Manual Method SOP HAE-ESRMAN Modified Westergren	A/B/C
Plasma	Prothrombin time (PT) Activated Partial Prothrombin Time (APTT) – including Manual APTT  Fibrinogen Lupus Screen	Sysmex CS-5100 Turbidimetric Clot Detection SOP HAE-CSPTINR SOP HAE-CSAPTT SOP HAE-CSFIB SOP HAE-CSLUP	A



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HUMAN BODY FLUIDS	<u>Haematological examinations for the purpose of clinical diagnosis</u>	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using the following analysers or methods A-RSH -Sysmex CS-5100 B-PRH- Sysmex CS-2500 C - RJAH - Sysmex CS-2500	<b>A-RSH B-PRH C- RJAH</b>
	Prothrombin time (PT) Activated Partial Prothrombin Time (APTT) – including Manual APTT Fibrinogen	Sysmex CS-2500 Turbidimetric Clot Detection  SOP HAE-CSPTINR SOP HAE-CSAPTT  SOP HAE-CSFIB	B/C
	Factor VIII, IX, XI, XII.	Sysmex CS-2500 Turbidimetric Clot Detection SOP HAE-CS2500FACTORS	B
Plasma	Factor Inhibitor Screen	Sysmex CS-5100 Sysmex CS-2500 SOP INHSCRN Turbidimetric Clot Detection	A B
Plasma	<b>Therapeutic Drug Monitoring</b> Factor Xa (Heparin) Assay Danaparoid Assay	Sysmex CS-5100 Sysmex CS-2500  Chromogenic SOP HAE-CSDAN-Xa	A B
Plasma	D-Dimer	Sysmex CS-5100 Sysmex CS-2500 Immunturbidimetric (VLin Integral method) SOP HAE-CSDD	A B



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Blood	<b>Antenatal and Newborn screening Haemoglobinopathy screening</b> Abnormal haemoglobins and thalassaemia detection	Documented-in-house methods to meet the requirements of the SCT screening programme as defined in the July 2018 version of 'Sickle cell and thalassaemia screening program: laboratory QA evidence requirements TOSOH G8 SOP TOSOH SAMPPROC  Dual wavelength HPLC	B
Blood	Sickle Screen	Streck Sickledex Solubility Test SOP SOLUBTST Turbidimetric	A, B, C
Blood	Glandular Fever Screen (IM)	Clearview IM Card SOP HAE-IMSCRN Latex Enhanced Immunoassay	A/B
Serum	Intrinsic Factor Antibody	Dynex DS2 (IMMCO Diagnostics kit) SOP IFAB ELISA method	A
Bone Marrow	<b>Smear Preparation / Examination</b> morphological interpretation of bone marrow smears	Bone Marrow Processing and Iron Stain using RAL stainer – May Gruwald Giemsa SOP HAE-BMPROC	A
Blood	Preparation and Morphological Interpretation of Blood films	Sysmex RAL Stainer/Sysmex SP-10 slidemaker/stainer SOP HAE-RALSTAIN SOP HAE-SP10USE May-Gruwald Giemsa	A/ B
Blood	Detection of Malarial Parasites in Blood Films P.falciparum, P.vivax, P.ovale, P.malariae, P. knowlesi	RAL stainer/Sysmex SP-10 slidemaker/stainer May-Grunwald Giemsa/and Giemsa pH 7.2 slide SOP HAE-MALSCRN	A/ B



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Blood	Identification of malarial parasites P.falciparum, P.vivax, P. ovale, P. malariae	CareStart Malaria card test (RDT) Immunochromatography (lateral flow antigen detection) HAE-MALARIACARD	A/B
Serum	Heparin Induced Thrombocytopaenia (HIT)	Stago STic Expert HIT lateral flow immunoassay is designed for the qualitative detection of IgG antibodies	A
Blood	<b>Blood Group and Antibody Screening Tests</b> Automated and Manual Blood Grouping/Antibody screen C, c, D, E, e, K, k, Fy <sup>a</sup> , Fy <sup>b</sup> , Jk <sup>a</sup> , Jk <sup>b</sup> , S, s, M, N and Le <sup>a</sup>	Biorad IH 1000 Analyser SOP BB-IHRA BioRad IH-500 Analyser SOP BB-IH500RA Biorad IH 1000 Analyser SOP BB-IHRA Manual (Biorad) cards SOP BB-MANCG Gel column agglutination	A, B B C A/B/C
Blood	Antibody Identification C, c, D, E, e, K, k, Fy <sup>a</sup> , Fy <sup>b</sup> , Jk <sup>a</sup> , Jk <sup>b</sup> , S, s, M, N and Le <sup>a</sup>	Biorad Gel Cards and associated panel screening cells SOP BB-ABID/BB-INVANTIB Red cell agglutination	A/B/C
Blood	Automated & Manual Crossmatching	Biorad IH 1000/500 analyser / BioRad cards Manual method/Diamed cards SOP BB-XM Gel column agglutination	A/B A/B/C
Blood	Red Cell Phenotyping (Rh/Kell) C,c, E, e and K red cell	Biorad IH-1000/500 analyser Biorad cards Manual Method/Biorad cards	A/B A/B/C
	Extended Red cell Phenotyping Anti-k, Kpa, Kpb, Cw, Fya, N, M, S, s, P1, Lua, Lea, Leb, Jka, Jkb	Manual Method/Biorad cards Red cell agglutination SOP BB-REDPHENO	A/B



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Blood	Estimation of Foetal/Maternal haemorrhage (FMH)	Kleihauer-Betke Test Guest Medical FMH Kit SOP BB-KB Elution and Erythrosin Stain	A
Blood	Direct Anti-Human Globulin Test (DAT)	Biorad IH1000/500 Biorad DC Screening 1 cards SOP BB-DAT Gel column agglutination	A/B/C
Blood	Direct Anti-Human Globulin Test (DAT)	Manual method Biorad DC Screening 1 cards SOP BB-DAT Gel column agglutination	A/B/C
Blood	Direct Anti-Human Globulin Screening Test (Poly-specific)	Manual Method Biorad LISS/Coombs Biorad Cards Gel column agglutination SOP BB-DAT	A/B/C
END			