


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS MEDICAL 8800 Accredited to ISO 15189:2012	Great Western Hospitals NHS Foundation Trust	
	Issue No: 011 Issue date: 25 March 2025	
	Blood Sciences Department Blood Sciences Marlborough Road Swindon SN3 6BB United Kingdom	Contact: Trudi Carey Tel: +44 (0)1793 605013 E-Mail: trudicarey@nhs.net Website: www.gwh.nhs.uk
Testing performed at the above address only		

Site activities performed away from the locations listed above:

Location details	Activity
Savernake Hospital SN8 3HL Local Contact Jassy Uppal Email: j.uppal@nhs.net Tel: 01793 604796	Blood Issue Fridge Blood storage only Fridge 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
HUMAN BODY FLUIDS:	<u>Haematology examination activities for the purpose of clinical diagnosis</u>	In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant:
Blood	Full blood counts (FBC) and automated differential: Haemoglobin (Hb) Total white cell count (WBC) Red cell count (RBC) Platelet count MCV MCH MCHC NRBC Neutrophils Lymphocytes Monocytes Eosinophils Basophils Reticulocyte Count	Sysmex XN9100 using cyanmethaemoglobin method. DC sheath flow detection method and Fluorescence flow cytometry and procedures: HAE-S-217 Analysis of Samples on the XN-9100 Analyser
Blood	Erythrocyte Sedimentation Rate (ESR)	Automated - Starrsed(InterRRLiner) ESR integrated into Sysmex XN 9100 Platform. Principle: Difference in density of RBC and procedure: ESR (Operation,Maintenance and QC) HAE-S-214
Blood/Bone Marrow	Blood Film: Detection of normal and abnormal morphologies and white blood cell differential	Manual and/or automated slide preparation and interpretation. Manual Staining HAE-B-047, Manual differential HAE-S-085 Automated Sysmex SP 50 blood film stainer HAE-S-214
Blood (whole)	Glycated Haemoglobin / HbA1c	Abott Afinion Boronate Affinity Assay Abbot Afinion 2 SOP (CHE-S-193)



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HUMAN BODY FLUIDS: (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis</u>	In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant:
EDTA Plasma , SST Serum	Glandular fever: heterophile antibodies to Epstein Barr Virus	latex agglutination using Werfen Bioview Monogen kit . HAE-S-070
	Haemosiderin	Manual Perl's Iron Stain HAE-S-104
Plasma	Detection of Malarial antigens of: <i>P. falciparum</i> and Pan-detection for <i>P. malariae</i> , <i>P. ovale</i> & <i>P. vivax</i>	CareUS TM Malaria HRP2/pLDH Combo Immunoassay HAE-S-047
Blood	Detection of Plasmodium Falciparum	Manual staining and Microscopy HAE-S-047
CSF	Detection of White and red blood cells	Cytospin CSF Centrifugation and Microscopy HAE-S-054
		Documented in-house methods to meet the requirements of the Sickle cell and Thalassaemia screening programme, as defined in the laboratory QA evidence requirements.
Blood	Adult Haemoglobinopathy analysis (including Antenatal) by detection of haemoglobin variants:	Biorad Turbo High Performance liquid Chromatography and procedure HAE-S-219
	Hb A Hb A2 Hb F Hb S Hb C Hb D Punjab Hb E	
	Sickle Solubility test	Sickledix Precipitation of reduced HbS HAE-S-110
Blood	<u>Identification of Haemoglobin variants</u> <u>HbC</u> <u>HbE</u> <u>HbFH</u> <u>HbD</u> <u>HbS</u>	Helena SAS-MX electrophoresis tank SOP BS-S-067



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<p>HUMAN BODY FLUIDS: (cont'd)</p> <p>Plasma</p> <p>Whole blood (EDTA)</p>	<p><u>Haematology examination activities for the purpose of clinical diagnosis</u></p> <p><u>Coagulation</u></p> <p>PT/PTR INR APPT/APTR Fibrinogen DDimer Anti-Xa Mixing studies Lupus insensitive aPTT</p> <p><u>Blood Transfusion examination activities for the purpose of clinical diagnosis:</u></p> <p>Automated blood grouping by antigen detection:</p> <ul style="list-style-type: none"> • ABO blood groups • Rh blood group antigens <p>Automated Antibody screening using the Biovue System</p> <p>Phenotyping Red Cells Identification for the following antigens: D,C,E,c,e,Cw,K,k,Kpa,Kpb,Fya,Fy, JkaJkb,Lea,Leb,P1,M,N,S,s,Lua,Lub, Xga</p>	<p>In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant:</p> <p>Equipment: Werfen ACL Top 350 Measurement Principle: Change at optical density at endpoint and procedure: Reference: HAE-S-196</p> <p>Clauss Fibrinogen assay</p> <p>HemosIL SynthAFax</p> <p>Documented in-house procedures based on manufacturer's instructions</p> <p>Automated Blood Grouping Using Ortho Vision Analyser Immunoassay and procedure: Routine Operation of the Ortho Vision Analyser (BTR-S-108)</p> <p>Automated Antibody Screening Using Ortho Vision Analyser Immunoassay and procedure: Routine Operation of the Ortho Vision Analyser (BTR-S-108)</p> <p>Ortho Clinical Diagnostic Spin / IAT 0 Biovue Method Manual Biovue agglutination using screening antisera BTR-S-028</p>



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<p>HUMAN BODY FLUIDS: (cont'd)</p> <p>Blood</p>	<p><u>Blood Transfusion examination activities for the purpose of clinical diagnosis:</u></p> <p>Direct Antiglobulin Test (DAT)</p> <p>Rhesus and Kell Phenotyping</p> <p>Crossmatching for Anti-A1</p> <p>Manual blood grouping by antigen detection:</p> <ul style="list-style-type: none"> • ABO blood groups • Rhesus blood group antigens <p>Manual antibody screening and identification using cells containing the following antigens: D,C,E,c,e,Cw,K,k,Kpa,Kpb,Fya,Fyb,Jk a,Jkb,Lea,Leb,P1,M,N,S,s,Lua Lub, Xga</p> <p>Compatibility Testing: Serological Crossmatch - serological compatibility testing between donor red cell antigens and patient plasma.</p> <p>Detection and Estimation of Foetal Maternal Haemorrhage</p>	<p>Documented in-house procedures based on manufacturer's instructions</p> <p>Ortho Vision Analyser Immunoassay and procedure: Routine Operation of the Ortho Vision Analyser (BTR-S-108)</p> <p>Manual Biovue Method BTR-S-020</p> <p>Ortho Diagnostics Agglutination using gel cards BTR-S-029</p> <p>Type and Crossmatch patients using anti-A1 BTR-S-071 Spin tubes cross match using antisera and cells</p> <p>Ortho Clinical Diagnostics Biovue crossmatch BTR-S-071</p> <p>ABO/D Forward + Reverse Group using Biovue Technology BTR-S-028</p> <p>Manual Biovue Antibody screening BTR-S-018</p> <p>Manual Biovue Antibody Panels using the Biovue system BTR-S-047</p> <p>Manual Biovue crossmatching BTR-S-031</p> <p>Crossmatching for patients with anti-A1 BTR-S-071</p> <p>Manual Kleihauer staining method – Acid Elution method BTR-S-043</p>



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HUMAN BODY FLUIDS: (cont'd)	<u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u>	In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant:
Serum	AFP	Beckman Coulter DXi Two site Immunoenzymatic assay CHE-S-096
Serum/plasma	Albumin	Beckman Coulter AU700 Colorimetric Bromcresol Green Endpoint CHE-S-002
Serum/plasma	Alkaline Phosphatase	Beckman Coulter AU700 IFCC AMP Buffer Kinetic rate method CHE-S-003
Serum/plasma	ALT	Beckman Coulter AU700 Kinetic rate method CHE-S-093
Serum/plasma/urine	Amylase	Beckman Coulter AU700 Buffer Kinetic rate method CHE-S-004
Serum/plasma	Angiotensin Converting Enzyme	Beckman Coulter AU700 Kinetic colorimetric rate method FAPGG hydrolysed by ACE CHE-S-001
Serum/plasma	AST	Beckman Coulter AU700 Kinetic rate method CHE-S-005
Serum/plasma	BhCG	Beckman Coulter DXi Two site Immunoenzymatic assay CHE-S-116



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HUMAN BODY FLUIDS: (cont'd)	<u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u> cont'd	In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant:
Serum/plasma	Bicarbonate	Beckman Coulter AU700 Fixed Endpoint – Enzymatic PEP-MD CHE-S-006
Serum/plasma	Bile Acids	Beckman Coulter AU700 Enzymatic Colorimetric In the presence of NAD, the enzyme 3-alpha hydroxysteroid dehydrogenase (3 alpha HSD) converts bile acids to 3 – Keto Steroids and NADH CHE-S-122
Serum/plasma	B- type Natriuretic Peptide (BNP)	Beckman Coulter DXi Two site Immunoenzymatic assay CHE-S-165
Serum/plasma	C3	Beckman Coulter AU700 Fixed Endpoint – Immunometric CHE-S-087
Serum/plasma	C4	Beckman Coulter AU700 Fixed Endpoint – Immunometric CHE-S-088
Serum/plasma	CA-125	Beckman Coulter DXi Two site Immunoenzymatic assay CHE-S-115
Serum/plasma/urine	Calcium	Beckman Coulter AU700 Fixed Endpoint-colorimetric CHE-S-007



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HUMAN BODY FLUIDS: (cont'd)	<u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u> cont'd	In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant:
Serum/plasma	Calcium, Adjusted (formerly corrected calcium)	Calculation: $[37-(Alb)/40+(Ca)]+Ca$ CHE-S-007
Serum/plasma	Carbamazepine	Beckman Coulter AU700 Kinetic EMIT CHE-S-097
Serum/plasma	CEA	Beckman Coulter DXi Two site Immunoenzymatic assay CHE-S-098
Serum/plasma	Cholesterol	Beckman Coulter AU700 Fixed endpoint – colorimetric CHE-S-010
Serum/plasma	Conjugated Bilirubin	Beckman Coulter AU700 Fixed endpoint – colorimetric (Sample Blank) CHE-S-009
Serum/plasma	Cortisol	Beckman Coulter DXi Competitive binding Immunoenzymatic assay CHE-S- 099
Serum/plasma	C-Reactive Protein	Beckman Coulter AU700 Fixed endpoint – Immunometric CHE-S-013
Serum/plasma	Creatine Kinase	Beckman Coulter AU700 Kinetic IFCC-CK (NAC) CHE-S-011
Serum/plasma/urine	Creatinine	Beckman Coulter AU700 Modified Jaffe colorimetric Kinetic CHE-S-012



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HUMAN BODY FLUIDS: (cont'd)	<u>Clinical Chemistry examination activities for the purpose of clinical diagnosis cont'd</u>	In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant:
Serum/plasma	Creatinine Clearance	Calculation
And		$\frac{(CRRU \times (\text{Volume}) \times 1000)}{1.44}$
Urine		See CHE-S-012
Calculation	Estimated Glomerular Filtration Rate (eGFR)	Calculation
		$186 \times (\text{creat}/88.4) - 1.154 \times (\text{Age}) - 0.203 \times (0.742 \text{ if female}) \times (1.210 \text{ if black})$
		NB ethnicity not currently known so factor is set to 1)
		See CHE-S-160
Serum/Plasma	Digoxin	Beckman Coulter DXi Competitive binding Immunoenzymatic assay CHE-S-100
Blood/Serum/Plasma/urine	Ethanol	Beckman Coulter AU 700 Fixed endpoint – EMIT II Plus CHE-S-146
Serum/Plasma	Ferritin	Beckman Coulter DXi Two site binding Immunoenzymatic assay CHE-S-102



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HUMAN BODY FLUIDS: (cont'd)	<u>Clinical Chemistry examination activities for the purpose of clinical diagnosis cont'd</u>	In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant:
Serum/Plasma	Folate	Beckman Coulter DXi Competitive binding Immunoenzymatic assay CHE-S-119
Serum/Plasma	Free T3	Beckman Coulter DXi Two site binding Immunoenzymatic assay CHE-S-104
Serum/Plasma	Free T4	Beckman Coulter DXi Two site binding Immunoenzymatic assay CHE-S-105
Serum/Plasma	FSH	Beckman Coulter DXi Two site binding Immunoenzymatic assay CHE-S-103
Serum/Plasma	Gentamicin	Beckman Coulter AU 700– EMIT 2000 CHE-S-112
Serum/Plasma	GGT	Beckman Coulter AU 700– IFCC Kinetic CHE-S-014
Serum/Plasma/CSF	Glucose	Beckman Coulter AU 700– Hexokinase End point CHE-S-164
Blood (whole)	Glycated Haemoglobin / HbA1c	Biorad Turbo Dedicated HPLC with photometric detection CHE-S-136
Serum/plasma	HDL , HDL Cholesterol	Beckman Coulter AU 700 Endpoint enzymatic immunoinhibition CHE-S-016



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HUMAN BODY FLUIDS: (cont'd)	<u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u> cont'd	In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant:
Serum	Immunoglobulin A IgA	Beckman Coulter AU 700– Immunoturbidimetric End point CHE-S-089
Serum	Immunoglobulin G IgG	Beckman Coulter AU 700– Immunoturbidimetric End point CHE-S-090
Serum	Immunoglobulin M IgM	Beckman Coulter AU 700– Immunoturbidimetric End point CHE-S-091
Serum/Plasma	Inorganic Phosphate	Beckman Coulter AU 700 Fixed colorimetric Endpoint Measurement of phosphomolybdate complex CHE-S-021
Serum/Plasma	Iron	Beckman Coulter AU 700 Timed endpoint Colorimetric TPTZ CHE-S-017
Serum/Plasma	Iron Binding Capacity IBC TIBC	Beckman Coulter AU 700 Transferrin Saturation with Ferric Chloride followed by Measurement of Fe – see line above CHE-S-017 (within)
Serum/Plasma	Lactate Dehydrogenase LDH	Beckman Coulter AU 700 Colorimetric Kinetic Method



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HUMAN BODY FLUIDS: (cont'd)	<u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u> cont'd	In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant:
Calculation	LDL (calculated)	1 X (Trig) / 2.19 + (Chol)- (HDL) CHE-S—010
Serum/Plasma	LH	Beckman Coulter DXi Two site Immunoenzymatic assay CHE-S-106
Serum/Plasma (cannot be lithium heparin plasma)	Lithium	A spectrophotometric method Lithium present in the sample reacts with a substituted porphyrin compound at an alkaline pH, resulting in a change in absorbance which is directly proportional to the concentration of lithium in the sample CHE-S-092
Serum/Plasma/Urine	Magnesium	Beckman Coulter AU 700 Colorimetric Timed endpoint method CHE-S-019
Urine	Microalbumin	Beckman Coulter AU 700 Immunturbidimetric Timed endpoint method CHE-S-029
Serum/Plasma	Oestradiol E2	Beckman Coulter DXi Competitive binding Immunoenzymatic assay CHE-S-101
Serum/Plasma/Urine	Osmolality	Vitech Osmometer Depression of Freezing Point CHE-S-126
Serum/Plasma/Urine	Derived Osmolality	Calculation 2 (Na+K) Ur + Gluc CHE-S-126 (within)



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HUMAN BODY FLUIDS: (cont'd) Serum/Plasma Serum/Plasma Serum/Plasma Serum/Plasma Serum/Plasma Serum/Plasma Serum/Plasma Serum/Plasma Serum/Plasma	<p><u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u> cont'd</p> Paracetamol Parathyroid Hormone PTH Phenytoin Procalcitonin Progesterone Prolactin PSA Rheumatoid Factor Salicylate	In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant: Beckman Coulter AU 700 EMIT Tox Kinetic CHE-S-020 Beckman Coulter DXi chemiluminescent assay CHE-S-175 Beckman Coulter AU 700 EMIT 2000 Kinetic CHE-S-094 Beckman Coulter DXi – Sequential 2 step immunoenzymatic assay CHE-S – 176 Beckman Coulter DXi Competitive Binding Immunoenzymatic assay CHE-S-107 Beckman Coulter DXi Two site Immunoenzymatic assay CHE-S-108 Beckman Coulter DXi Two site Immunoenzymatic assay CHE-S-109 Beckman Coulter DXi AU 700 Latex particle immunoturbidimetric – Fixed endpoint CHE-S-161 Beckman Coulter AU 700 EMIT 2000 Kinetic CHE-S-022



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HUMAN BODY FLUIDS: (cont'd) Serum/Plasma/Urine Serum/Plasma Serum/Plasma Serum/Plasma Serum/Plasma Serum/Plasma	<p><u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u> cont'd</p> Sodium, Potassium and Chloride Testosterone Vitamin D Theophylline Tobramycin Total Bilirubin	In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant: Beckman Coulter AU 700 Indirect Potentiometry CHE-S-028 Beckman Coulter DXi Competitive Binding immuno enzymatic assay CHE-S-110 Beckman Coulter DXi Two step Competitive Binding immuno enzymatic assay CHE-S-168 Beckman Coulter AU 700 EMIT 2000 Kinetic CHE-S-111 Beckman Coulter AU 700 EMIT 2000 Kinetic CHE-S-163 Beckman Coulter AU 700 DPD Colorimetric Timed endpoint CHE-S-023



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<p>HUMAN BODY FLUIDS: (cont'd)</p> <p>Serum/Plasma</p> <p>Serum/Plasma</p> <p>Plasma</p> <p>Serum/Plasma</p> <p>Serum/Plasma/Urine</p> <p>Serum/Plasma/Urine</p> <p>Urine</p>	<p><u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u> cont'd</p> <p>Total Protein</p> <p>Triglyceride</p> <p>Troponin I</p> <p>TSH</p> <p>Urea</p> <p>Urate</p> <p>Urine Drugs of Abuse Triage Toxicology Screen</p> <p>Metabolites of Amphetamines, Metamphetamines, Barbiturates, Benzodiazepines, Cocaine, Methadone, Opiates, Phencyclidine, THC (Cannabis) and Tricyclic antidepressants in urine.</p>	<p>In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant:</p> <p>Beckman Coulter AU 700 endpoint Biuret Reagent CHE-S-024</p> <p>Beckman Coulter AU 700 GPO-POD endpoint CHE-S-025</p> <p>Beckman Coulter DXi Two site Immunoenzymatic assay CHE-S-117</p> <p>Beckman Coulter DXi Two site Immunoenzymatic assay CHE-S-114</p> <p>Beckman Coulter AU 700 GLDH Kinetic Assay CHE-S-026</p> <p>Beckman Coulter AU 700 Uricase PAP enzymatic endpoint reaction CHE-S-027</p> <p>Alere Triage meter Fluorescence immunoassay</p> <p>INDICATIVE SCREEN FOR MEDICAL PURPOSES ONLY No chain of custody and no legal status applies</p> <p>CHE-S-135</p>



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Urine/CSF	Urine Protein CSF Protein	Beckman Coulter AU 700 Spectrophotometric End point using Pyrogallol red molybdate CHE-S-095
Serum/{Plasma	Vancomycin	Beckman Coulter AU 700 EMIT 2000 Kinetic CHE-S-113
Serum/Plasma	Vitamin B12	Beckman Coulter DXi Competitive Binding Immunoenzymatic assay CHE-S-118
CSF	Xanthochromia	Northstar Spectrophotometer Spectrophotometry through Wavelengths 350-600 m and procedure CHE-S-085
END		