


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 9058 Accredited to ISO 15189:2022	The Mid Yorkshire Teaching NHS Trust	
	Issue No: 011	Issue date: 22 July 2024
	Blood Science Department Pathology Pinderfields Hospital Aberford Road Wakefield WF1 4DG	Contact: Emma Naylor Tel: +44 (0) 1924 543214 E-Mail: enaylor1@nhs.net Website: https://www.midyorks.nhs.uk/
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 Blood Science Department Pathology Pinderfields Hospital Aberford Road Wakefield WF1 4DG Local contact Janet English (details as above)	<ul style="list-style-type: none">• Haematology• Blood Transfusion• Chemistry	A
Dewsbury and District Hospital Halifax Road Dewsbury WF13 4HS Janet English (details as above)	<ul style="list-style-type: none">• Haematology• Blood Transfusion• Chemistry	B

Site activities performed away from the locations listed above:

Location details	Activity
Pinderfields Hospital Gate 18 Labour ward A&E Theatres level D Gate 21 Haematology Inpatients	<ul style="list-style-type: none">• Management of blood fridge• Phlebotomy
Dewsbury and District Hospital: Ridings Ground Floor	<ul style="list-style-type: none">• Management of blood fridge• Phlebotomy
Pontefract Hospital Haematology Day Unit Elective Orthopaedic Suite	<ul style="list-style-type: none">• Management of blood fridge• Phlebotomy



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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 diagnosis:</u>	Documented in house methods and manufacturer's instructions for	
	Quantitative determination of:	Roche Cobas 8000 c702 module SOP-BIO-037	A
		Roche Cobas 6000 c501 module SOP-BIO-039	B
		by photometry	
Serum	Alanine Transaminase		A, B
Serum	Albumin		A, B
Serum	Alkaline Phosphatase		A, B
Plasma	Ammonia		A & B
Serum	Amylase		A, B
Serum	Angiotensin Converting Enzyme (ACE)		A
Serum	Aspartate transaminase (AST)		A
Serum	Bicarbonate		A & B
Serum	Bile acids		A
Serum	Bilirubin		A, B
Serum and Urine	Calcium		A, B
Serum	Cholesterol (Total)		A & B
Serum	Creatine Kinase		A & B
Serum and Urine	Creatinine		A, B
Serum	Direct Bilirubin		A
Serum	Ethanol		A
Serum	Gamma glutamyl transferase		A
Plasma	Glucose		A, B
CSF	Glucose		A
Serum	HDL (High density lipoprotein)		A & B
Serum	Iron		A
Plasma and CSF	Lactate		A
Serum	LDH		A
Serum	Lipase		A
Serum	Lithium		A
Serum	Magnesium		A, B
Urine	Magnesium		A
Serum	Paracetamol		A, B
Serum and Urine	Phosphate		A, B
Serum	Salicylate		A, B
Serum	Total Protein		A, B
Serum	Triglycerides		A, B
Serum and Urine	Urate		A
Serum and Urine	Urea		A, B



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of diagnosis:</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
	Quantitative determination of: (cont'd)	Roche Cobas 8000 c702 module SOP-BIO-037	A
		Roche Cobas 6000 c501 module SOP-BIO-039	B
		by Immunospectrophotometry	
Urine	Albumin		B
Serum	Alpha-1-Antitrypsin		A
Serum	Antistreptolysin O		A
Serum/Plasma	Beta-2 Microglobulin		A
Serum	Complement 3		A
Serum	Complement 4		A
Serum	Caeruloplasmin		A
Serum	C-reactive protein		A, B
Serum	Haptoglobin		A
Serum	Immunoglobulin A		A
Serum	Immunoglobulin G		A
Serum	Immunoglobulin M		A
Serum	Rheumatoid Factor		A
Serum	Transferrin		A
Faeces	Calprotectin		B
Faeces	Elastase		B
Faeces	Faecal immunochemical test (FIT)		B
		by turbidimetry	
Urine	Protein		A, B
CSF	Protein		A



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of diagnosis:</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
	Quantitative determination of: (cont'd)	Roche Cobas 8000 e801 module SOP-BIO-037	A
		Roche Cobas e411 module SOP-BIO-039	B
		by electrochemiluminescence immunoassay (ECLIA)	
Serum	Alpha Feto protein (AFP)		A
Plasma	N-terminal pro B-type natriuretic peptide (NTPBNP)		A
Serum	Carcinoembryonic antigen (CEA)		A
Serum	CA125		A
Serum	CA15-3		A
Serum	CA19-9		A
Serum	Cortisol		A
Serum/Plasma	Digoxin		A
Serum	Ferritin		A
Serum	Folate		A
Serum	Follicle Stimulating Hormone (FSH)		A
Serum	Free T3		A
Serum	Free T4		A, B
Serum	Human Chorionic Gonadotrophin (HCG)		A, B
Serum/plasma	Human growth hormone (GH)		B
Serum	Total Immunoglobulin E		A
Serum/plasma	Insulin like growth factor 1 (IGF-1)		B
Serum	Luteinising Hormone (LH)		A
Serum	Macroprolactin		A
Serum	Oestradiol		A
Serum	Placental like growth factor (PIGF)		A
Serum	Progesterone		A
Serum	Prolactin		A
Serum	Prostatic Specific Antigen (PSA)		A
Plasma	Parathyroid hormone (PTH)		A
Serum	Sex hormone binding globulin (SHBG)		A
Serum	Soluble fms-like tyrosine kinase-1 (sFlt-1)		A



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of diagnosis:</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
	Quantitative determination of: (cont'd)	Roche Cobas 8000 e801 module SOP-BIO-037	A
		Roche Cobas e411 module SOP-BIO-039	B
		by electrochemiluminescence immunoassay (ECLIA)	
Serum	Testosterone		A
Serum	TPO Antibodies (TPOA)		A
Serum	Troponin-T (high sensitivity)		A, B
Serum	Thyroid stimulating hormone (TSH)		A, B
Serum	Vitamin B12 (total)		A
Serum	Vitamin D		A
Serum	Macroprolactin	By PEG precipitation Manual method then moved to Roch Cobas 8000	A
	Quantitative determination of:	Roche Cobas 8000 c702 SOP-BIO-037	A
		Roche Cobas 6000 c501 SOP-BIO-039	B
		Measurement by enzyme immunoassay	
Serum	Valproic Acid		A
		Roche Cobas 8000 c702 By kinetic interaction of microparticles in a solution (KIMS)	A
Serum	Carbamazepine		
Serum	Phenytoin		A
Serum	Theophylline		A
Serum	Gentamicin		A
Serum	Vancomycin		A



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of diagnosis:</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
	Quantitative determination of: (cont'd)	Roche Cobas 8000 c702 module SOP-BIO-37	A
		Roche Cobas 6000 c501 module SOP-BIO-039	B
Serum, Urine	Chloride	by indirect ion selective electrode	A, B
Serum, Urine	Potassium		A, B
Serum, Urine	Sodium		A, B
CSF	Xanthochromia	North Star Bio UV Spectrophotometer using measurement by spectrophotometry SOP-BIO-057	A
Whole Blood	HbA1C IFCC Standardised	Tosoh G11 Analyser using high pressure cation exchange chromatography SOP-BIO-201	A
Urine	pH	Mettler Toledo Five Easy F20 pH meter using suppliers methods and measurement by potentiometry SOP-BIO-027	A, B
	Quantitative determination of:		
Serum/Urine	Osmomolality	Advanced Instruments Osmo Pro Osmometer – using freezing point depression SOP-BIO-177	A
Urine	Bence-Jones protein (Kappa and lambda free light chains)	Helena SAS 3 and V8 Nexus software by Gel immunofixation SOP-BIO-169	A
Serum	Identification of heavy and light chain components of monoclonal protein	Helena SAS 3 and V8 Nexus Gel immunofixation and capillary immunotyping SOP-BIO-167 SOP-BIO-169	A



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of diagnosis:</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Urine	Quantitative determination of: (cont'd) Identification of free light chain and potential heavy chain components	Helena SAS 3 Gel immunofixation SOP-BIO-167	A
Serum/plasma	Calculated tests: Acute kidney injury stage Adjusted calcium eGFR Liver fibrosis score (FIB-4) Globulin Low density lipoprotein Non HDL Cholesterol Total HDL:Cholesterol ratio Transferrin saturation Free androgen index Free testosterone	Calculated parameters/derived results from Roche Cobas SOP-BIO-205	A, B A, B A, B A A, B A, B A, B A, B A A A
Serum	sFlt-1:PIGF ratio		A
Urine	Albumin 24hr output Albumin:creatinine ratio Calcium 24 hr output Calcium:creatinine ratio Calculated tests:	Calculated parameters/derived results from Roche Cobas SOP-BIO-205	B B A, B A, B
Urine	Creatinine 24hr output Potassium 24hr output Magnesium 24hr output Sodium 24hr output Phosphate 24hr output Protein 24hr output Protein:creatinine ratio Urate 24hr output Urea 24hr output		A, B A, B A A, B A, B A, B A, B A A, B



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of diagnosis:</u> (cont'd)	Documented in house methods and manufacturer's instructions for	
Serum/plasma/Urine	Calcium:creatinine clearance ratio Creatinine clearance Tubular reabsorption of phosphate TMP:GFR (phosphate threshold)		A, B A, B A A
Sweat	Conductivity & chloride measurement.	Wescor 3700 SYS Macroduct Sweat Collection System using suppliers methods by pilocarpine iontophoresis BIO_SOP_LPT_Man_132 Sherwood MK2 926S chloride meter by suppliers methods and measurement by Argentimetry BIO_SOP_LPT_Man_134 Wescor 3120 Sweat•Chek Conductivity Analyser using suppliers methods and measurement by conductivity BIO_SOP_LPT_Man_133	A



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examination for the purpose of clinical diagnosis</u>	Documented procedures and manufacturer's instructions for	
Blood	Full Blood Count (FBC) analysis for the following parameters:	Sysmex XN Series analyser using fluorescence flow cytometry XN 9000	A
	Haemoglobin	Sysmex XN Series analyser using fluorescence flow cytometry XN 2000	B
	WBC – differential neutrophils, lymphocytes, monocytes, basophils, eosinophils	SOP-HAEM-001 SOP-HAEM-002 SOP-HAEM-005 SOP-HAEM-012	
	Retics Nucleated Red Blood cell count Platelets MCV MCH MCHC RDW		
Plasma	Automated coagulation testing	Sysmex CS-2500i Sysmex CS-5100 Optical analysis of turbidimetric and colorimetric changes SOP-HAEM_062 overview of analysers SOP_HAEM_064 Processing QC and changing reagents	A, B A
	Prothrombin time INR APTT/ APTT ratio Fibrinogen Thrombin Time D-dimer Anti-Xa	SOP_HAEM_074 SOP_HAEM_074 SOP_HAEM_075 SOP_HAEM_076 SOP-HAEM_078 SOP-HAEM_077 SOP_HAEM_098	A, B A, B A, B A, B A A, B A



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examination for the purpose of clinical diagnosis (cont'd)</u>	Documented procedures and manufacturer's instructions for	
Blood	Plasma Viscosity	Benson plasma viscometer SOP-HAEM-228 Documented in-house methods to meet the requirements of the Sickie Cell and Thalassemia screening programme(s) as defined in the July 2018 'NHS Sickie Cell and thalassemia screening: Laboratory QA evidence requirements.	A
Blood	Hb variant screening percent HBA2 and HBF	Bio-rad variant II HPLC SOP_HAEM_184 antenatal processing	A
Blood	Blood film analysis: White cell differential Immature leucocytes Red cell structural abnormality Platelet structure and number	Blood smears – light microscopic identification of pathological processes SOP-HAEM-115 SOP-HAEM-116 Using Aerospray slide stainer for May-Grunwald-Giemsa SOP-HAEM-113 RAL Stainer for May-Grunwald Giemsa SOP-HAEM-225 SP-10 Wright single stain May-Giemsa stain Wright-Giemsa stain SOP-HAEM-226	A, B



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examination for the purpose of clinical diagnosis (cont'd)</u>	Documented procedures and manufacturer's instructions for	
Blood	Infectious mononucleosis	Clearview IM screening Kit for infectious mononucleosis detection Sandwich ELISA SOP-HAEM-122	A, B
Blood	G6PD	Trinity Biotech G6PD screening kit Production of a fluorescence or its absence under UV light SOP-HAEM-121	A, B
Blood	Sickle cell test	Clin-tech Sickle test SOP-HAEM-186 based on deoxy-HbS solubility in phosphate buffers	A
Bone Marrow	Reporting of normal and abnormal morphologies	Jenner and Giemsa stain and Perls Iron Stain SOP-HAEM-117 SOP-HAEM-118 SOP-HAEM-120 SOP-HAEM-243	A, B
Blood	Antiphospholipid Antibody screen: Dilute Russell's Viper Venom (DRVVT) APTTSP/Actin FSL Anti-cardiolipin assay Beta-2 glycoprotein I assay	Sysmex CS2500 SOP-HAEM-247 SOP-HAEM-250	A
Blood	Thrombophilia screening: Protein C Free Protein S Antithrombin III	Sysmex CS2500 SOP-HAEM-248	A
Blood	Thrombophilia Screening: DNA extraction and PCR for Factor II Prothrombin Gene and Factor V Leiden Mutations	Duplica Prep DNA extraction & ABI 7500 PCR system SOP-HAEM-249	A



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examination for the purpose of clinical diagnosis (cont'd)</u>	Documented procedures and manufacturer's instructions for	
Blood	Antiphospholipid Antibody screen: Dilute Russell's Viper Venom (DRVVT) APTTSP/Actin FSL Anti-cardiolipin assay Beta-2 glycoprotein I assay	Stratec Gemini ELISA analyser SOP-HAEM-253 SOP-HAEM-250	A
Serum	Coeliac Screening	Stratec Gemini ELISA analyser SOP-HAEM-253 SOP-HAEM-256	A
Serum	Intrinsic Factor antibody screening	Stratec Gemini ELISA analyser SOP-HAEM-253 SOP-HAEM-251	A
Blood	HLA B27 screening	DNA extraction and PCR Duplica Prep DNA extraction system ABI 7500 PCR system SOP-HAEM-254	A



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<u>HUMAN BODY FLUIDS (cont'd)</u>	<u>Blood transfusion examinations to assist in clinical investigations</u>	Documented procedures and manufacturer's instructions for	
Blood Plasma	Compatibility testing of patients plasma with donor cells	Manual Cross matching using Bio-Rad Column gel IAT technology/saline spin technique SOP_BT_030 SOP_BT_062 SOP_BT_049	A, B
Blood Plasma	Compatibility testing of patients plasma with donor cells	Automated Cross matching using Bio-Rad IH-1000 SOP_BT_062 SOP_BT_049	A, B
Blood Plasma	Blood group by detection and identification of antigens : AB Rh D Positive B Rh D Positive O Rh D Positive A Rh D Negative AB Rh D Negative B Rh D Negative O Rh D Negative A Rh D Positive Including the presence of A2 antigens	Automated using Bio-Rad IH-1000 analyser SOP_BT_AUTO_018	A, B
Blood Plasma	Antibody screen by detection of antibodies to: Rh – C, c, D, E, e, Cw Kell – K, k, Kpa Duffy – Fya, Fyb MNSs – M, N, S, s Kidd – Jka, Jkb Lewis – Lea, Leb Lutheran – Lua P – P1	Automated using Bio-Rad IH-1000 analyser SOP_BT_AUTO_018	A, B
Blood	Direct Antiglobulin Test (DAT)	Automated method using Bio-Rad IH-1000 analyser SOP_BT_AUTO_018	A, B



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HUMAN BODY FLUIDS (cont'd)	<u>Blood transfusion examinations to assist in clinical investigations</u> (cont'd)	Documented procedures and manufacturer's instructions for	
Blood Plasma	Blood group by detection and identification of antigens: A Rh D Positive AB Rh D Positive B Rh D Positive O Rh D Positive A Rh D Negative AB Rh D Negative B Rh D Negative O Rh D Negative Including the presence of A2 antigens	Manual Bio-Rad Column gel IAT technology SOP_BT_074 SOP_BT_026	A, B
Blood Plasma	Antibody screen by detection of antibodies to: Rh – C, c, D, E, e, Cw Kell – K, k, Kpa Duffy – Fya, Fyb MNSs – M, N, S, s Kidd – Jka, Jkb Lewis – Lea, Leb Lutheran – Lua P – P1	Manual Bio-Rad Column gel IAT SOP_BT_027 SOP_BT_076	A, B
Blood	Direct Antiglobulin Test (DAT)	Manual method Bio-Rad Column gel IAT technology SOP_BT_025	A, B
END			