Schedule of Accreditation

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United Kingdom Accreditation Service

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

UKAS MEDICAL **8650** **Accredited to ISO 15189:2022**	**Manchester University NHS Foundation Trust** **Issue No:** 010 **Issue date:** 14 October 2026	
	Haematology Department **Manchester University NHS Foundation Trust** **Oxford Road** **Manchester** **M13 9WL** **United Kingdom**	**Contact: John Welsh** **Tel: +44 (0) 161 276 4421** **E-Mail: John.Welsh@mft.nhs.uk** **Website: www.mft.nhs.uk/laboratorymedicine**
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 Haematology Department Manchester University NHS Foundation Trust Manchester M13 9WL United Kingdom	**Local contact** John Welsh	Diagnostic Testing	A
Address Haematology Department Trafford General Hospital Moorside Road M14 5SL	**Local contact** John Welsh	Diagnostic Testing	B
Address Directorate of Haematology North Manchester General Hospital Delaunays Road Crumpsall Manchester M8 5RB	**Local contact** John Welsh	Diagnostic Testing	C
Address Haematology Department Wythenshawe Hospital Southmoor Road Manchester M23 9LT	**Local contact** John Welsh	Diagnostic Testing	D

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Testing performed by the Organisation at the locations specified

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Oxford Road Campus Blood issue fridges at: Adult A&E Paediatric A&E Central Delivery Suite Paediatric Theatre Adult Theatre Haematology Ward	**Local contact** Thomas Trimble Thomas.Trimble@mft.nhs.uk	Storage and issue of blood and blood products	A
Trafford General Hospital: Pathology	**Local contact** Thomas Trimble Thomas.Trimble@mft.nhs.uk	Storage and issue of blood and blood products	B
North Manchester General Hospital: Blood Issue Fridge Essential Service Laboratory Central Delivery Unit Main Theatre	**Local contact** Sophie Moores Sophie.Moores@mft.nhs.uk	Storage and issue of blood and blood products	C
Wythenshawe Hospital: Blood issues fridges at: Maternity Accident & Emergency CDU Cardiothoracic theatres Main theatre Acute theatres Acute ICU Treatment and Diagnostics centre	**Local contact** Nathan Jones Nathan.Jones@mft.nhs.uk	Storage and issue of blood and blood products	D

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>Haematology examinations for the purposes of clinical diagnosis</u>	In-house documented procedures based on equipment manuals as relevant	
Blood	Full Blood Count White Blood Cell Count Neutrophils Lymphocytes Monocytes Eosinophils Basophils Red Blood Cell Count Haemoglobin Haematocrit	Sysmex XN 9000, 1000 and 450 Analyser modules by flow cytometry, impedance and Spectrophotometry SOPs LP_HAEM_GH5 LP_HAEM_GH6	A, C
	Mean Cell Volume Red Cell Distribution width. Mean Cell Haemoglobin Mean Cell Haemoglobin concentration. Platelets Mean Platelet volume Nucleated Red Blood cells (not XN450) Reticulocyte count	Sysmex XN2000 analyser by flow cytometry, impedance and spectrophotometry LP-HAEM-GH5 LN HAEM GH48	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purposes of clinical diagnosis (cont'd)	In-house documented procedures based on equipment manuals as relevant	
		Sysmex XN 9000 and XSi analysers, cytometry semiconductor laser: RBC,HCT,MCH,MCHC,RDW-CV, and Plt count measured through Hydrodynamic focussing DC detection. HGB is measured through SLS Cyanide-free HB method. WBC and WBC Differential measured using fluorescence flow cytometry	D
	WBC RBC HGB HCT MCV MCH MCHC RDW-CV PLT NEUT LYMPH MONO EOS BASO Nucleated red blood cell (NRBC) count	LP_HAEM_GH5 LP_HAEM_GH6	D
	Reticulocytes	Sysmex XN 9000 and XSi analysers, cytometry semiconductor laser	D

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purposes of clinical diagnosis (cont'd)	In-house documented procedures based on equipment manuals as relevant	
EDTA Plasma	Plasma Viscosity	Benson Viscometers, capillary method Haem HA-S-26	
Blood	Blood film assessment for detection of abnormal cell types, morphology and numbers	SP10 automated slide maker stainer and May Grunwald and Giemsa stain examined by light microscopy, LI_HAEM-GH121	A, C
		Manual blood film preparation and automated staining using RAL stainer and May Grunwald and Giemsa stain examined by light microscopy using LP HAEM GH13 LI_HAEM_GEN52	A,
		Sysmex SP10 LI_HAEM_GH121	D
		LI_HAEM_GH58 Slides stained with May Grunewald Giemsa Stain	D
Blood	Iron stain	Manual Perl's Prussian Blue stain examined by light microscopy SOP LP_HAEM_GH17	C
Blood	Malaria screen for P. falciparum P. vivax P. ovale P. malariae P. knowlesi	Using Giemsa/Fields Staining for thin smears and manual microscopy LP LP_HAEM_GH10	A, B, -

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purposes of clinical diagnosis (cont'd)	In-house documented procedures based on equipment manuals as relevant	
Blood	Estimation of Erythrocyte Sedimentation Rate	Automated method using Sysmex Interrliner and Westergren method, LP_HAEM_GH7	A
		Autocompact ESR analyser- Trafford	A
		Inversa analyser by Westergren method	C
		StaRRsed inversa using Westergren method	D
Bone marrow	Bone marrow assessment for detection of abnormal cell types, morphology and numbers	Sysmex SP10 slide stainer and Romanowski stain, LP_HAEM_GH16	A
		RAL staining machine and Romanowski stain, LP_HAEM_GH13	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purposes of clinical diagnosis (cont'd) Coagulation examination activities for the purpose of clinical diagnosis	In-house documented procedures based on equipment manuals as relevant	
Plasma	Prothrombin time Prothrombin time correction with normal plasma APTT APTT correction with normal plasma Clauss fibrinogen D Dimer Low molecular weight heparin	Roche Cobas 8100 and Sysmex CS5100i coagulation analyser using immuno-turbidimetry, chromogenic and optical absorbance LP_HAEM_COAG57 LP_HAEM_COAG61	A
	Prothrombin Time / INR Activated Partial Thromboplastin time (aPTT) Fibrinogen (Derived) Fibrinogen (Clauss) D-Dimer	Sysmex CS-2500 LP_HAEM_COAG38 and LP_HAEM_COAG40	C
Plasma	Prothrombin Time / INR Activated Partial Thromboplastin time (aPTT) Fibrinogen (Clauss) D-Dimer	Sysmex CS5100i Coagulation analyser LP_HAEM_COAG57	D
	Thrombin time Factor VIII, IX, XI Von Willebrands Factor antigen Anti Xa levels	LP_HAEM_COAG66 LP_HAEM_COAG_69 LP_HAEM_COAG61	
Plasma	Thrombophilia screening: Anti-thrombin 3 activity Protein C activity Free Protein S level Thrombin time Reptilase time	Roche Cobas 8100 and Sysmex CS5100i coagulation analyser using immuno-turbidimetry, chromogenic and optical absorbance LP_HAEM_COAG62	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purposes of clinical diagnosis (cont'd) Coagulation (cont'd)	In-house documented procedures based on equipment manuals as relevant	
Plasma	Lupus anticoagulant testing: APTT Dilute Russell Viper venom time Dilute Russell Viper venom confirmation	Roche Cobas 8100 and Sysmex CS5100i coagulation analyser using immuno-turbidimetry, chromogenic and optical absorbance LP_HAEM_COAG65	A
	Anti Xa levels	LP_HAEM_COAG61	D
	Von Willebrands factor antigen	LP_HAEM_COAG69	D
Plasma	Novel Anticoagulant levels: Dabigatran Rivoroxaban Apixaban Edoxaban Fondaparinux	Roche Cobas 8100 and Sysmex CS5100i coagulation analyser using immuno-turbidimetry, chromogenic and optical absorbance LI_HAEM_COAG85	A
Plasma	Coagulation: Prothrombin time APTT D-Dimer Thrombin time Fibrinogen	Roche Cobas 8100 and Sysmex CS2500i coagulation analyser using immuno-turbidimetry, chromogenic and optical absorbance and chromogenic methods LP_HAEM_COAG57	B
Plasma	Coagulation Factor Assays: Factor II, V, VII, VIII, IX, X, XI, XII Factor VIII Refacto Chromogenic Factor VIII and XIII Von Willebrand antigen level Ristocetin Cofactor level	Roche Cobas 8100 and Sysmex CS5100i coagulation analyser using immune-turbidometry, chromogenic and optical absorbance LP_HAEM_COAG66 LFHAEM_COAG41 LP_HAEM_COAG67 LI_HAEM_COAG89 and LI_HAEM_COAG90 LP_HAEM-COAG69 Werfen/IL Accustar using chemiluminescent immunoassay	A D

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purposes of clinical diagnosis (cont'd) Coagulation (cont'd)	In-house documented procedures based on equipment manuals as relevant	
Serum	Collagen Binding For Von Willebrands Activity	CO-S-93	D
	Heparin Induced Thrombocytopenia (HIT) Screen	CO-S-94	D
Citrated Plasma	Inhibitor assays: Nijmegan modification Bethesda assay • FVIII • FIX	Semi-automated technique with manual initial set up and automated Roche Cobas 8100 and Sysmex CS5100i coagulation analyser using immuno-turbidimetry, chromogenic and optical absorbance and chromogenic methods LP_HAEM_COAG63 LI_HAEM_COAG88	A
	Monitoring of Factor replacement Therapies FVIII	One stage clotting assay Emicizumab-modified FVIII assay(standard human plasma for calibration curve replaced by Emicizumab LP_HAEM-COAG64	
	Factors Assays FV, FII, FVII, FX	Dade Innovin PT reagent LP_HAEM_COAG66	
	FVIII, FIX, FXI, FXII	Actin FS – APTT reagent LP_HAEM_COAG66 CaCl2 LP_HAEM_COAG66	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematology examinations for the purposes of clinical diagnosis (cont'd)	In-house documented procedures based on equipment manuals as relevant	
Blood	Platelet aggregation and nucleotide release	Lab Medics Chronolog 700 platelet aggregometer, LP_HAEM_COAG50	A
Blood	Sickle solubility test for presence of sickle haemoglobin (HbS)	Streck Sickledex qualitative solubility and LP_HAEM_RC32	A,B, C, D
		Documented in-house methods to meet the requirement of the Sickle cell and thalassaemia screening progamme as defined in the July 2018 'Sickle cell and thalassaemia screening:laboratory QA evidence requirments	
	Sickle cell and Thalassemia screen for beta trait and evidence of alpha trait.	Biorad Variant II HPLC analyser, LP_HAEM_RC36 Variant II Operation.	B
Blood	G6PD screen and assay	Trinity Biotech G6PD screening test kit, LP-HAEM RBC 50 G-6-PDH Screen	A
		Pointe Scientific G6PD assay kit, HAEM RBC PRO 007 G-6-PDH Enzyme Assay	
Urine	Detection of haemosiderin	Manual staining using Clinitech Perl's staining kit, LP_HAEM_GH22 Haemosiderin	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examinations for the purposes of clinical diagnosis</u>	In-house documented procedures based on equipment manuals as relevant	
Blood	Compatibility testing: Serological crossmatch – serological compatibility testing between donor red cell antigens and patient plasma	Automated cross match using Grifols Erytra analyser and LP_HAEM_BT75 Manual cross match using Grifols cards and LP_HAEM_BT78	A, B
		Automated Cross match using Ortho Vision analyser using column agglutination technology BB-S-19	C
		Manual method BioRad using Gel card agglutination BB-S-4	D
Blood	Determination of blood group (ABO, RhD) and Antibody screening using the following panel: NBS cellstab 2 cell panel (CE) covering D, C, E, c, e, C^w, K, k, Kp^a, Js^a, Fy^a, Fy^b, Jk^b, Le^a, Le^b, P_1, M, N, S, s, Kp^b, Lu^b	Automated ABO Blood Group typing and Antibody screening using Grifols Erytra analyser, LP_HAEM_BT76 Manual Grouping and Antibody screening using Grifols cards and LP_HAEM_BT77	A, B
Blood	Blood Group, A, B, O and AB groups Rh groups, antigen D and antibody screen using Ortho Surgiscreen 3 cell panel	Automated using Ortho Vision analyser using column agglutination technology BB-S-23	C
Blood	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 Negative AB Rh D Negative B RhD Negative O Rh D Negative	Agglutination using manual tubemethods: BB-S-11 BB-S-9	D

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Blood Transfusion examinations for the purposes of clinical diagnosis (cont'd)	In-house documented procedures based on equipment manuals as relevant	
Blood	Antibody panels of the following systems: Rh-hr, KELL, DUFFY, KIDD, LEWIS, MNS, P and LUTHERAN	Ortho Vision analyser using column agglutination technology Resolve Panel C SOP Resolve Panel B SOP BB-S-3 Manual method using NHSBT panel 1 in CellStab SOP BB-S-3	D C D
Blood	Antibody identification and phenotyping Using Griffols IAT and ENZ panels panel to ID: D, C, E, c, e, C^w, K, k, Kp^a, Js^a, Fy^a, Fy^b, Jk^a Jk^b, Le^a, Le^b, P_1, M, N, S, s, Lu^a, Co^b, Xg^a	Automated using Grifols Erytra analyser and manual method using Grifols cards and LP_HAEM_BT14 BB-S-7	A, B
Blood	Atypical antibody screen and red blood cell phenotyping by detection of antibodies to: Rh: C, D, E, c, e, f, Cw and V. Kell: K, k, Kp(a), Kp(b), Js(a) and Js(b). Duffy: Fy(a) and Fy(b). Kidd: JK(a) and Jk(b). Sex Linked: Xg(a). Lewis: Le(a) and Le(b). MNS: S, s, M and N P: P1 Lutheran: Lu(a) and Lu(b).	Column Agglutination using Ortho Vision using: BB-S-17 Column Agglutination technology using Ortho Vision autoamted techniques methods using : BB-S-20 BB-S-5 BioRad LISS/Coombs method using: BB-S-3: NHSBT Cell panel	D
Blood	Determination of Rhesus and Kell Phenotyping (D, C, E, c, e, C^w, K)	Automated using Grifols Erytra analyser and manual using Grifols Cards and LP_HAEM_BT14	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Blood Transfusion examinations for the purposes of clinical diagnosis (cont'd)	In-house documented procedures based on equipment manuals as relevant	
Whole Blood :EDTA Plasma	Atypical antibody screen and red blood cell phenotyping by detection of antibodies to: Rh: C, D, E, c, e, f, Cw and V. Kell: K, k, Kp(a), Kp(b), Js(a) and Js(b). Duffy: Fy(a) and Fy(b). Kidd: JK(a) and Jk(b). Sex Linked: Xg(a). Lewis: Le(a) and Le(b). MNS: S, s, M and N P: P1 Lutheran: Lu(a) and Lu(b).	Column Agglutination using Ortho Vision using: BB-S-17 Ortho Vision Sample processing Column Agglutination technology using Ortho Vision autoamted techniques methods using : BB-S-20 Manual Bio Vue methods using : BB-S-5: BioVue Untreated Cell Panel and Ficin Treated Cell Panel BioRad LISS/Coombs method using: BB-S-3: NHSBT Cell panel	D
EDTA Plasma	Four Cell Anti-D Screening Test	Manual Column Agglutination technology using Ortho BioVue methods: BB-S-7: Investigation of RhD Negative Women with a Positive Antibody Screen Following Administration of Anti-D Prophylaxis.	D
Blood	Direct antiglobulin test	Ortho Vision analyser using column agglutination technology SOP BB-S-12	C, D
Blood	Direct antiglobulin test for detection of antibody bound red cells	Automated method using Grifols Erytra analyser and manual method using Grifols cards and LP_HAEM_BT14	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Blood Transfusion examinations for the purposes of clinical diagnosis (cont'd)	In-house documented procedures based on equipment manuals as relevant	
Blood	Estimation of Fetomaternal Haemorrhage (FMH), detection of HbF in maternal sample	Using the Kleihauer technique with acid elution and the Clin-Tech Shepard's stain kit, LP_HAEM_BT55 BB-S-1 BB-S-2	A, C
		Using the Kleihauer technique with acid elution and Shepard's staining kit BB-S-1 BB-S-2	D
END			