


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 8864 Accredited to ISO 15189:2022	Mersey and West Lancashire Teaching Hospitals NHS Trust	
	Issue No: 008	Issue date: 07 March 2025
	Haematology Department Mersey and West Lancashire Teaching Hospitals NHS Trust Whiston Hospital Warrington Road Prescot L35 5DR	Contact: Judith Raine Tel: +44 (0) 151 676 5673 E-Mail: Judith.raine@sthk.nhs.uk Website: www.merseywestlancs.nhs.uk/pathology
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
Haematology Department Mersey and West Lancashire Teaching Hospitals NHS Trust Whiston Hospital Warrington Road Prescot L35 5DR Local contact As above	Haematology Haemoglobinopathies Special Coagulation Blood Transfusion Management of blood fridges Phlebotomy	STHK
Haematology Department Southport Hospital Town Lane Kew PR8 6PN Local contact As above	Haematology Routine Coagulation Blood Transfusion Management of blood fridges Phlebotomy	SOHT
Haematology Department Ormskirk District General Hospital Wigan Road Ormskirk L39 2AZ Local contact As above	Haematology Blood Transfusion Management of blood fridges Phlebotomy	ORMS
Haematology Department St Helens Hospital St Helens WA9 3DA Local contact As above	Haematology Routine Coagulation Management of blood fridges Phlebotomy	STH



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
Emergency Department, Whiston Hospital Local contact As above	Blood issue fridge No testing occurs on this site, blood storage only	STHK
Haematology ward, Whiston Hospital Local contact As above	Blood issue fridge No testing occurs on this site, blood storage only	STHK
Delivery Suite, Whiston Hospital Local contact As above	Blood issue fridge No testing occurs on this site, blood storage only	STHK
4A, Whiston Hospital Local contact As above	Blood issue fridge No testing occurs on this site, blood storage only	STHK
Elyn Lodge, St Helens Hospital Local contact As above	Blood issue fridge No testing occurs on this site, blood storage only	STH
Lilac Centre, St Helens Hospital Local contact As above	Blood issue fridge No testing occurs on this site, blood storage only	STH
Fairfield Hospital Local contact As above	Blood issue fridge No testing occurs on this site, blood storage only	FF
Theatre, Southport Hospital Local contact As above	Blood issue fridge No testing occurs on this site, blood storage only	SOHT
Theatre, Ormskirk Hospital Local contact As above	Blood issue fridge No testing occurs on this site, blood storage only	ORMS



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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>Haematology examination for the purposes of clinical diagnosis:</u>	Documented in house methods and manufacturer's instructions for:	STHK
Whole blood	Full Blood Count	Sysmex XN9100 by flow cytometry, impedance and Spectrophotometry	STHK
	Haemoglobin	SOP 2 XN Running FBC Samples	
	White Blood Cell count		
	Red blood cell count		
	Platelet count		
	Haematocrit	Sysmex XN2000	
	Mean Cell Volume	SOP 2 XN Running FBC Samples	SOHT
	Mean Cell Haemoglobin		
	Mean Cell Haemoglobin concentration	Sysmex XN1000	
	Red Cell Distribution width	SOP 2 XN Running FBC Samples	ORM
	Neutrophil count		
	Lymphocyte count		
	Monocyte count	Sysmex XN1000	
	Eosinophil count	SOP 2 XN Running FBC Samples	STH
	Basophil count		
	Nucleated Red Cell count		
Whole blood	Reticulocyte count	Sysmex XN9100 Sysmex	STHK SOUT ORMS
Whole blood	Erythrocyte Sedimentation Rate (ESR)	Automated Sysmex Interliner and Auto Compact Westergen method SOP ESR	STHK
Whole blood	Erythrocyte Sedimentation Rate (ESR)	Manual ESR rack graduated micro CB200 SOP 54 Aquisel ESR	STHK SOHT



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination for the purposes of clinical diagnosis (cont'd):</u>	Documented in house methods and manufacturer's instructions for:	
Whole blood, bone marrow	Detection of normal and abnormal morphologies	Blood film examination using Giemsa and May Grunwald (MG) staining and light microscopy	
		Automated Staining using Sysmex SP50 and RAL stainer	STHK
		Automated staining using RAL stainer	SOHT
		SOP 22 Bone marrow aspiration, slide prep and procedure	
		Microscopy SOP Haematology Bone marrow review and reporting	STHK
		SOP 13 Blood film examination	STHK SOHT
Slide of whole blood	Identification of: White blood cells Platelets	Digital Morphology DI-60	STHK
Slide of whole blood	Identification of: White blood cells Platelets	Digital Morphology DC1	STHK SOHT
Whole blood	WBC differential	Manual examination light microscopy SOP 13 Blood film examination	STHK SOHT
Whole blood	Detection of infectious mononucleosis heterophile antibodies (Glandular fever)	Clearview® IM II test antigen/antibody test SOP: Glandular fever screening test	STHK SOHT
Whole blood	Malarial parasite screen by detection of antigens <ul style="list-style-type: none"> • <i>P. falciparum</i> • <i>P. vivax</i> • <i>P. ovale</i> • <i>P. malariae</i> 	Humasis test Immunochromatographic rapid test SOP: Screening for Malarial parasites	STHK SOHT



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination for the purposes of clinical diagnosis (cont'd):</u>	Documented in house methods and manufacturer's instructions for:	
Whole blood	Detection and Identification of Plasmodium species: <ul style="list-style-type: none"> • <i>P. falciparum</i> • <i>P. vivax</i> • <i>P. ovale</i> • <i>P. malariae</i> • <i>P. knowlesi</i> 	Thick and thin films and microscopy Stains – Field's stain (Atom Scientific) and Giemsa SOP: Screening for Malarial parasites 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	STHK
Whole blood	Sickle cell screen	Strek Sickledex Solubility test SOP: Sickie Cell screening test	STHK
Whole blood	Haemoglobinopathy screen (sickle cell and Thalassaemia / antenatal) <ul style="list-style-type: none"> • HbA2 • HbF • HbA • HbS • HbD • HbC • HbE • Hb Dpunjab • Hb Oarab • Hb Lepore 	Sebia Capillarys 3 tera using capillary electrophoresis SOP ID58024 Haemoglobinopathy screening on the sebia capillarys 3 SOP ID58025 Sebia Phoresis SOP ID58026 Haemoglobinopathies and Thalassemias: Description, pathophysiology and diagnosis	STHK



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology (coagulation) examination for the purposes of clinical diagnosis:</u>	Documented in house methods and manufacturer's instructions for:	
Whole blood	Haemoglobinopathy identification and quantitation of <ul style="list-style-type: none"> • HbA2 • HbF • HbA • HbS • HbD • HbC • Variant Hb 	Sebia Hydrasys 2 system acid alkali electrophoresis SOP Acid haemoglobin electrophoresis SOP Alkaline haemoglobin electrophoresis SOP 56 Antenatal sickle cell haemoglobinopathy screening SOP 44 Haemoglobinopathy screening on Tosoh G8	STHK
Plasma	Prothrombin time / INR APTT FS (Lupus insensitive) APTT FSL (Lupus sensitive) Fibrinogen	Sysmex CN6000 and CN6500 Light Transmittance – clotting assays SOP: Prothrombin Time SOP 11: Activated Partial Thromboplastin Time SOP 13: Clauss Fibrinogen Assay SOP 42: APTT using Actin FSL SOP 46: PT mixing studies SOP45: APTT mixing studies	STHK
Plasma	PT / INR, APTT, Fibrinogen,	Sysmex CN3000 SOP 12: Prothrombin time SOP 11: APTT FS SOP 13: Clauss Fibrinogen	SOHT
Plasma	PT/ INR, APTT	Sysmex CN3000 SOP 4: Prothrombin Time SOP 5: Activated Partial Thromboplastin Time	STH
Plasma	D-dimer	Sysmex CN6000 and CN6500 Immunoassay SOP 50 - D-dimer	STHK
Plasma	D-Dimer	Sysmex CN3000 Immunoturbidometric SOP 15: D-Dimer	SOHT



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology (coagulation) examination for the purposes of clinical diagnosis (cont'd):</u>	Documented in house methods and manufacturer's instructions for:	
Plasma	Thrombin time	Sysmex CN6000 and CN5600 Light Transmittance SOP 14 - Thrombin Time	STHK
Plasma	Detection of <ul style="list-style-type: none"> • FII • FV • FVII • FVIII • FIX • FX • FXI • FXII 	Sysmex CN6000 and CN6500 Light transmittance SOP 26 - Intrinsic factor assays SOP 25 - Extrinsic factor assays	STHK
Plasma	Detection of <ul style="list-style-type: none"> • Anti-Xa (LMWH) • Direct oral anti-coagulants 	Sysmex CN6000 and CN6500 Chromogenic assays SOP 19: LMWH determination SOP 27: DOAC assays	STHK
Plasma	Platelet function aggregation (PFA)	PFA-100 Platelet aggregation SOP: Platelet Function Screening PFA 100	STHK
Whole blood	Detection of Factor V Leiden and Prothrombin gene mutation	Cepheid Gene Expert PCR SOP: Factor II and Factor V gene mutation	STHK
Plasma	Detection of <ul style="list-style-type: none"> • IgG and IgM for Anti-cardiolipin antibodies • IgG for Beta glycoprotein 1 	Phadia 250 Immunoassay EliA fluorescence enzyme immunoassay SOP 19: ACA and B2GPI on the Phadia 250	STHK
Plasma	Quantitation of: <ul style="list-style-type: none"> • Protein S • Protein C • Anti-thrombin 	Sysmex CN6000 and CN6500 chromogenic immunoassay SOP 34 Free Protein S SOP 12 Anti-thrombin Immunoturbidimetric SOP 15 Protein C	STHK



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology (coagulation) examination for the purposes of clinical diagnosis (cont'd):</u>	Documented in house methods and manufacturer's instructions for:	
Plasma	Detection of: <ul style="list-style-type: none"> Lupus anticoagulant 	Sysmex CN6000 and CN6500 SOP18: Lupus Coagulant	STHK
Plasma	Detection of vWF antigen	Sysmex CN6000 and CN6500 SOP16 Von Willebrand antigen immunoassay	STHK
	vWF activity	Sysmex CN6000 and CN6500 SOP 17 Immunoturbidometric assay	STHK
	<u>Blood Transfusion examination activities for the purposes of clinical diagnosis</u>	Documented in house methods and manufacturer's instructions for:	
Whole blood	Blood Grouping by antigen and antibody detection: <ul style="list-style-type: none"> A B and O groups RhD group 	Automated using Grifols Erytra and Grifols Eflexis analysers using column agglutination SOP BT 047	STHK
		Automated using Grifols Eflexis analysers using column agglutination SOP BT 047	SOHT
		Manual method by Grifols gel cards using SOP BT 049	STHK SOHT



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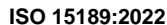
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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturer's instructions for:	
Whole blood	Antenatal prophylactic anti-D panel	Automated using Grifols Erytra and Grifols Eflexis analysers using column agglutination SOP BT 008	STHK
		Automated using Grifols Eflexis analysers using column agglutination SOP BT 008	SOHT
		Manual method by Grifols gel cards using BT 008	STHK SOHT
Whole blood	Infant Blood grouping Neonatal blood group + DAT <ul style="list-style-type: none"> A B and O groups RhD group 	Automated using Grifols Erytra and Grifols Eflexis analysers using column agglutination SOP BT 047	STHK
		Automated using Grifols Eflexis analysers using column agglutination SOP BT 047	SOHT
		Manual method by Grifols gel cards using BT 049	STHK SOHT



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturer's instructions for:	
Blood and Blood components	Electronic blood tracking	BloodTrack Manager SOP BT	ORM SOUT ORM
Whole blood	Red cell phenotyping for Antigens of the following systems: <ul style="list-style-type: none"> • Rh – C, D, E, c, e • Kell – K, 	Automated using Grifols Erytra and Grifols Eflexis analysers using column agglutination SOP BT 008	STHK
	<ul style="list-style-type: none"> • Cw • Fya, Fyb • Kidd – Jka, Jkb • s 	Automated using Grifols Eflexis analysers using column agglutination SOP BT 008	SOHT
		Manual method by Grifols gel cards using BT008	STHK
Whole blood	Red cell phenotyping for Antigens of the following systems: <ul style="list-style-type: none"> • S • Kell – K, • M, N • Lea, Leb • P1 	Manual tubes SOP BT 008	STHK
Whole blood	Manual cross match	Manual using Grifols cards SOP BT 010	STHK SOHT
Whole blood	Automated cross match	Automated using Grifols Erytra and Grifols Eflexis analysers using column agglutination SOP BT 053	STHK
		Automated using Grifols Eflexis analysers using column agglutination SOP BT 053	SOHT



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturer's instructions for:	
Whole blood	Direct Coombs Test (DCT)	Automated using Grifols Erytra and Grifols Eflexis analysers using column agglutination SOP BT 047	STHK
		Automated using Grifols Eflexis analysers using column agglutination SOP BT 047	SOHT
		Manual using Grifols cards SOP BT 049	STHK SOHT
Whole blood	Foetal/maternal haemorrhage screen	Guest Medical Kleihauer Testing Kit - Acid Elution	SOHT
Whole blood	Foetal/maternal haemorrhage screen	Guest Medical Kleihauer Testing Kit - Acid Elution SOP BT 11 Cord Sample, Kleihauer Testing and Anti-D Administration	STHK
END			