# **Schedule of Accreditation**

issued by

**United Kingdom Accreditation Service** 

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



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

#### Laboratory locations:

Location details		Activity	Location code
Address Biochemistry Department University Hospital of North Durham North Road Durham County Durham DH1 5TW	Local contact Mrs Hazel Borthwick Joanne Lawson	Clinical Biochemistry Haematology and Blood Transfusion Documented in-house methods to meet the requirements of the Sickle cell and Thalassaemia (SCT) screening programme as defined in the laboratory QA evidence requirements: • Review of Family Origin Questionnaire and Full Blood Count screen • Subsequent testing at a laboratory accredited to ISO 15189 for detection of haemoglobin variants via HPLC • Clinical interpretation and reporting	UHND
Address Biochemistry Department Darlington Memorial Hospital Hollyhurst Road Darlington DL3 6HX	Local contact Dr Laura Bernstone Nicola McKeague	Clinical Biochemistry Immunology Haematology and Blood Transfusion	DMH

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UKAS MEDICAL 8770 Accredited to ISO 15189:2022	County Durham and Darlington NHS Foundation Trust Issue No: 011 Issue date: 27 June 2025		
	Testing performed by the Organisation at the locations specified		

## Site activities performed away from the locations listed above:

Location details		Activity
Address Shotley Bridge Hospital Shotley Bridge Consett DH8 0NB	Local Contact Joanne Lawson Tel: +44 (0)191 333 2628 Email: jlawson5@nhs.net	Management of Ward 4 blood fridge
Address Bishop Auckland Hospital Cockton Hill Road DL14 6AD	Local Contact Nicola McKeague Tel: +44 (0)1325 743686 Email nicola.mckeague@nhs.net	Management of laboratory-based blood fridge Specimen reception



#### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS	Biochemistry examination activities for the purpose of clinical diagnosis	Documented in-house procedures in conjunction with manufacturers instructions for analysis using Siemens Advia 2400 XPT Using supplier methods unless otherwise stated	
Serum	Albumin ALP ALT Ammonia Amylase AST Bile Acids Calcium Carbamazepine Chloride Cholesterol CK Conjugated Bilirubin Creatinine CRP Enzymatic creatinine GGT HDL-cholesterol Iron LDH Lithium Magnesium Paracetamol Phenytoin Phosphate Potassium Salicylate Sodium TCO2 Theophylline Total Bilirubin Total protein Transferrin Triglyceride	LP/PA/CB/CBAU205 LP/PA/CB/CBAU207 LP/PA/CB/CBAU207 LP/PA/CB/CBAU217 LP/PA/CB/CBAU213 LP/PA/CB/CBAU206 Randox kit LP/PA/CB/CBAU209 LP/PA/CB/CBAU209 LP/PA/CB/CBAU225 LP/PA/CB/CBAU225 LP/PA/CB/CBAU211 LP/PA/CB/CBAU227 LP/PA/CB/CBAU221 LP/PA/CB/CBAU226 LP/PA/CB/CBAU226 LP/PA/CB/CBAU226 LP/PA/CB/CBAU228 LP/PA/CB/CBAU229 LP/PA/CB/CBAU208 LP/PA/CB/CBAU231 Thermo Infinity Kit LP/PA/CB/CBAU232 LP/PA/CB/CBAU232 LP/PA/CB/CBAU232 LP/PA/CB/CBAU232 LP/PA/CB/CBAU233 LP/PA/CB/CBAU233 LP/PA/CB/CBAU224 Stanbio kit LP/PA/CB/CBAU233 LP/PA/CB/CBAU222 LP/PA/CB/CBAU233 LP/PA/CB/CBAU237 LP/PA/CB/CBAU233	UHND, DMH UHND, DMH

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HUMAN BODY FLUIDS (conťď)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturers instructions for analysis using Siemens Advia 2400 XPT Using supplier methods unless otherwise stated	
Serum (cont'd)	Urate	LP/PA/CB/CBAU214	UHND, DMH
	Urea	LP/PA/CB/CBAU220	UHND, DMH
Plasma (Fluoride	Glucose	LP/PA/CB/CBAU239	UHND, DMH
Oxalate)	Lactate	LP/PA/CB/CBAU230	UHND, DMH
Urine	Calcium	LP/PA/CB/CBAU209	UHND, DMH
	Chloride	LP/PA/CB/CBAU225	UHND, DMH
	Creatinine	LP/PA/CB/CBAU221	UHND, DMH
	Magnesium	LP/PA/CB/CBAU232	UHND, DMH
	Microalbumin	LP/PA/CB/CBAU241	UHND, DMH
	Phosphate	LP/PA/CB/CBAU210	UHND, DMH
	Potassium	LP/PA/CB/CBAU224	UHND, DMH
	Protein	LP/PA/CB/CBAU223	UHND, DMH
	Sodium	LP/PA/CB/CBAU223	UHND, DMH
	Urea	LP/PA/CB/CBAU220	UHND, DMH
	Uric Acid	LP/PA/CB/CBAU214	UHND, DMH
CSF	Glucose	LP/PA/CB/CBAU239	UHND, DMH
	Lactate	LP/PA/CB/CBAU230	UHND, DMH
	Protein	LP/PA/CB/CBAU234	UHND, DMH

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunoassay examination activities for the purpose of clinical diagnosis	Documented in-house procedures in conjunction with manufacturers instructions for analysis using Siemens Advia Centaur XPT	
Serum	Cortisol Digoxin ELF assays (hyaluronic acid & TMP1) Ferritin Folate FSH FT3 FT4 Gentamicin hCG (Total) LH Macroprolactin Screen NtproBNP Oestradiol P3NP Procalcitonin Progesterone Prolactin PSA Sodium Valproate SHBG Testosterone	LP/PA/CB/CBIA012 LP/PA/CB/CBIA045 LP/PA/CB/CBIA025 LP/PA/CB/CBIA026 LP/PA/CB/CBIA006 LP/PA/CB/CBIA004 LP/PA/CB/CBIA003 LP/PA/CB/CBIA032 LP/PA/CB/CBIA015 LP/PA/CB/CBIA015 LP/PA/CB/CBIA007 Inc Polyethylene glycol pre- treatment LP/PA/CB/CBIA007 Inc Polyethylene glycol pre- treatment LP/PA/CB/CBIA007 LP/PA/CB/CBIA007 LP/PA/CB/CBIA020 LP/PA/CB/CBIA014 LP/PA/CB/CBIA034 LP/PA/CB/CBIA008 LP/PA/CB/CBIA005 LP/PA/CB/CBIA009 LP/DM/CB/CBIA035 LP/PA/CB/CBIA038 LP/PA/CB/CBIA038	UHND, DMH UHND, DMH DMH UHND, DMH UHND, DMH UHND, DMH UHND, DMH UHND, DMH UHND, DMH DMH DMH DMH DMH DMH DMH DMH DMH DMH
	THIH(high sensitivity troponin) TSH Vitamin B12 Anti-thyroid peroxidase antibody (a-TPO)	LP/PA/CB/CBIA036 LP/PA/CB/CBIA002 LP/PA/CB/CBIA027 LP/PA/CB/CBIA021	UHND, DMH UHND, DMH UHND, DMH UHND
Plasma (EDTA)	PTH	LP/ND/CB/CBIA024	UHND



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis	Documented in-house procedures in conjunction with manufacturers instructions for analysis using Siemens Advia Centaur XPT	
Serum/plasma/urine Serum/Plasma Serum Urine Serum Serum/plasma 24 hr Urine Serum/plasma Serum Urine Serum/plasma Serum/plasma	Anion Gap Globulin Adjusted Calcium eGFR Cholesterol:HDL ratio LDL Cholesterol Protein:Creatinine ratio Creatinine Clearance Microalbumin:Creatinine ratio Free androgen index Transferrin Saturation Urine urate:creatinine ratio Acute Kidney Injury, derived from creatinine ELF Score	By calculation By calculation	UHND, DMH UHND, DMH
Serum/Urine	Osmolality	Vitech 3320 Osmometer (freezing point depression) SOP LP/PA/CB/CBSP034	UHND, DMH
Serum	Vitamin D	Elecsys Vitamin D total III assay- Roche COBAS e411 LP/PA/CB/IA035	DMH
Faeces	Faecal Calprotectin	Extraction using Buhlmann Assay LP/PA/CBAU244	UHND, DMH
	Faecal Calprotectin	Testing using PETIA method on Advia XPTanalyser LP/PA/CBAU244	DMH
Whole blood	HbA1c	Menarini HA9210 HPLC with specific reference to LP/PA/CB/CBSP006	UHND, DMH
CSF	Xanthochromia	Uvikon spectrophotometry with reference to LP/PA/CB/CBSP028	UHND

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HUMAN BODY FLUIDS (cont'd)	Immunology examination activities for the purpose of clinical diagnosis	Documented in-house procedures in conjunction with manufacturers instructions for analysis	
Serum		Siemens Advia XPT using immunoturbidmetric measurement principle:	DMH
	Immunoglobulin A	LP/PA/CB/CBAU245	
	Immunoglobulin G	LP/PA/CB/CBAU246	
	Immunoglobulin M	LP/PA/CB/CBAU247	
	Rheumatoid factor	LP/PA/CB/CBAU249	
	B2M	LP/PA/CB/CBAU250	
	Serum electrophoresis	Agarose gel electrophoresis using Hydrasys II automated gel electrophoresis by Sebia	DMH
		SOP LP/PA/IM/SOP10	
	Serum Immunofixation		
	Serum Free Light Chains	Turbidimetry on Optilite Freelite kappa Free kit LK016.OPT	DMH
		Optilite Freelite lambda Free kit LK018. OPT	
		SOP LP/PA/IM/SOP037	

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Materials/Products tested	Type of test/Properties measured/Range of	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	measurement           Blood Transfusion           examination activities for the           purpose of clinical diagnosis	Manufacturer's instructions and documented In-house methods using:	
Whole Blood: EDTA samples	Blood Grouping	Automated Bio-Rad IH1000 blood transfusion analysers	
	• ABO	SOP: LP/PA/TR 9	
	Rhesus D status	Manual methods using DiaMed-ID Micro Typing system LP/PA/TR16	UHND, DMH
Whole Blood: EDTA samples	Antibody Screening	Automated Bio-Rad IH1000 blood transfusion analysers	
	Antibodies of the following	SOP: LP/PA/TR 9	
	systems: • Rh- C,D,E,c,e, • Kell- K,k, • Duffy- Fya, Fyb • MNSs- M,N,S,s Kidd- Jka, Jkb	Manual methods using DiaMed-ID Micro Typing system LP/PA/TR16	UHND, DMH
	Antibody Screening	Automated Bio-Rad IH1000 blood transfusion analysers	
	Antibodies of the following	SOP: LP/PA/TR 9	
	systems: • Rh- Cw • Kell- Kpa • Lutheran- Lua, • Lewis- Lea, Leb P- P1	Manual methods using DiaMed-ID Micro Typing system LP/PA/TR16	UHND, DMH
Whole Blood: EDTA	Antigen phenotyping		
samples	C, c, E, e, K, Fya, Fyb, Jka, Jkb, M, N, S, s	Manual methods using DiaMed-ID Micro Typing system	DMH
		LP/PA/TR57	

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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 examination activities for the purpose of clinical diagnosis (cont'd)	Manufacturer's instructions and documented In-house methods using:	
Whole Blood: EDTA samples (cont'd)	Antigen phenotyping (cont'd)		
	C, c, E, e, K, Fya, Fyb, Jka, Jkb, M, N, S, s, Lea, Leb, P1, Kpa, Lua, Cw	Manual methods using DiaMed-ID Micro Typing system	UHND
		LP/PA/TR57	
	c, C, e ,E, and K	Manual methods using DiaMed-ID Micro Typing system and DiaClon Rh-subgroups + K cards	UHND, DMH
		LP/PA/TR57	
	<ul> <li>Diaclon Anti-Jka/Jkb,</li> <li>Diaclon Anti-M/N,</li> </ul>	Manual methods using DiaMed-ID Micro Typing system	UHND, DMH
	<ul> <li>Diaclon Anti-Fya/Fyb &amp; ID Anti-Fya/Fyb test serum for phenotyping Fya, Fyb antigens,</li> <li>Diaclon Anti-S/s &amp; ID Anti- S/s test serum,</li> <li>Biorad Seraclone Anti-s (MNS4) antisera,</li> <li>Biorad Seraclone Anti- Fya (FY1) antisera,</li> <li>Biorad Seraclone Anti-Fyb (FY2) antisera</li> </ul>	LP/PA/TR57	
	<ul> <li>Diaclon Anti-Lea/Leb,</li> <li>Biorad Seraclone Anti- Kpa (KEL3) antisera,</li> <li>Biorad Seraclone Anti- Lua (LU1) antisera,</li> <li>Biorad Seraclone Anti-Cw (RH8) antisera</li> </ul>	Manual methods using DiaMed-ID Micro Typing system LP/PA/TR57	UHND
Whole Blood: EDTA samples	Kleihauer test for estimation of foeto-maternal haemorrhage	Clin Tech Shepherds Stain kit and Eosin stain SOP: LPPATR3	UHND, DMH

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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion</u> examination activities for the purpose of clinical diagnosis (cont'd)	Manufacturer's instructions and documented In-house methods using:	
Whole Blood: EDTA samples	Direct anti-globulin test, monospecific and polyspecific	SOP LPPATR 9 Manual methods using DiaMed-ID Micro Typing system SOP LPPATR51	
Whole Blood: EDTA samples	Crossmatch	SOP LPPATR58	
	Coagulation examination activities for the purpose of clinical diagnosis	Manufacturer's instructions and documented In-house methods using:	
Plasma (sodium citrate)	Blood Coagulation	ACL TOP 550 CTS	
	<ul> <li>PT</li> <li>APTT</li> <li>Clauss-Fibrinogen</li> <li>Actin FS</li> </ul>	Optical clot detection Key SOPs LP/PA/HA/CO3 LP/PA/HA/CO2 LP/PA/HA/CO3	UHND, DMH
	<ul> <li>Activated Protein C Resistance</li> <li>Antithrombin</li> <li>Free Protein S</li> <li>Heparin monitoring</li> <li>Lupus anticoagulant</li> <li>Protein C Chromogenic</li> <li>Reptilase Clotting Time</li> <li>Thrombin Time Blood</li> <li>Thrombophilia Screen Blood</li> <li>Factor VIIIc</li> </ul>	LP/PA/HA/CO3 LP/PA/HA/CO2 LP/PA/HA/CO7 LP/PA/HA/CO6 LP/PA/HA/CO9 LP/PA/HA/CO11 LP/PA/HA/CO5 LP/PA/HA/CO22 LP/PA/HA/CO10	UHND

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HUMAN BODY FLUIDS (cont'd)	<u>Coagulation examination</u> <u>activities for the purpose of</u> <u>clinical diagnosis</u> (cont'd)	Manufacturer's instructions and documented In-house methods using:	
Plasma (sodium citrate)	Blood Coagulation	ACL TOP 550 CTS	
	INR	Optical clot detection	UHND, DMH
		SOP LP/PA/HA/CO26	
	D-Dimer	Latex enhanced immunoassay using Werfen D-Dimer HS500 kit	UHND, DMH
		SOP LP/PA/HA/CO32	
	Anti Xa Assay	LP/PA/HA/CO3	UHND, DMH
	Derived fibrinogen	Algorithm on ACL TOP 550 CTS SOP LP/PA/HA/CO1	UHND, DMH
	Haematology examination activities for the purpose of clinical diagnosis	Manufacturer's instructions and documented In-house methods using:	
Whole Blood (EDTA)	Screening test for Glucose 6 phosphate dehydrogenase	Trinity Biotech kit, visual qualitative fluorescence	UHND
	deficiency	SOP LP/PA/HA37	
Urine	Identification of urinary haemosiderin	Manual iron stain	UHND
	naemosiderin	SOP LP/PA/HA60	
Bone marrow aspirate slides	Reporting of normal and abnormal morphologies	Manual MGG stain	UHND, DMH
Sildes	abhormar morphologies	Automated stain using SP10	
		Manual iron stain	UHND, DMH
		SOP LP/PA/HA60 LP/PA/HA/59 LP/PA/HA/63	

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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination</u> activities for the purpose of clinical diagnosis (cont'd)	Manufacturer's instructions and documented In-house methods using:	
Whole blood, Plasma (citrate or EDTA), Serum.	Detection of infectious mononucleosis heterophile antibodies	Clearview IM II test chromatographic immunoassay kit SOP LP/P/HA/4	UHND, DMH
Whole blood (EDTA)	Identification of normal and	Sysmex SP10	UHND, DMH
	abnormal morphologies including WBC differential count	Manual MGG	UHND
		Manual microscopy	UHND, DMH
		Key SOPs LP/PA/HA7 LP/PA/HA21 LP/PA/HA61	
Whole Blood EDTA	Malaria screening for: P. falciparum	Thick and thin films	UHND, DMH
	P. vivax P. ovale P. malariae	Fields stain and manual microscopy	
		Binax Now immunochromatographic test	
		Key SOPs LP/PA/HA/13 LP/PA/HA1	
Whole blood EDTA	ESR	Vitech Interliner Key SOPs LP/PA/HA17 LP/PA/HA22	UHND, DMH
	ESR	Manual method – Westergreen tube method on half hour tikme with 1-hour conversion algorithm, on board	UHND

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HUMAN BODY FLUIDS (cont'd)	Haematology examination activities for the purpose of clinical diagnosis (cont'd)	Manufacturer's instructions and documented In-house methods using:	
	Measurement of:	Launch Diagnostics Dynex DS2 analyser (ELISA)	
Serum	Anticardiolipin IgG/IgM antibodies	LP/PA/HA129	UHND
	Intrinsic Factor Antibodies	LP/PA/HA130	UHND
Whole blood (EDTA)	<ul> <li>Full Blood count:</li> <li>Haemoglobin</li> <li>Platelets</li> <li>Red Blood Cells</li> <li>Haematocrit</li> <li>MCV</li> <li>MCH</li> <li>MCHC</li> <li>Red cell distribution width</li> <li>White Cell Differential</li> <li>Neutrophils</li> <li>Lymphocytes</li> <li>Monocytes</li> <li>Eosinophils</li> <li>Basophils</li> </ul>	Sysmex XN9000 Key SOPs LP/PA/HA5 LP/PA/HA14	UHND, DMH
Whole blood (EDTA)	Reticulocytes	Sysmex XN9000 Key SOPs LP/PA/HA45 LP/PA/HA67	UHND, DMH
Whole Blood (EDTA)	Detection of haemoglobin S (Hb-S),	Clintech Solubility test kit SOP LP/PA/HA19	UHND
	END		·