


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>Accredited to ISO 15189:2012</b>	<b>University Hospitals of Morecambe Bay NHS Foundation Trust</b>	
	<b>Issue No:</b> 003 <b>Issue date:</b> 14 January 2025	
	<b>Department of Blood Sciences</b> Royal Lancaster Infirmary Ashton Road Lancaster LA1 4RP United Kingdom	<b>Contact:</b> Stephen McDonald – Quality Manager <b>Tel:</b> +44 (0)7866977925 <b>E-Mail:</b> <a href="mailto:stephen.mcdonald@mbht.nhs.uk">stephen.mcdonald@mbht.nhs.uk</a> <b>Website:</b> <a href="https://www.uhmb.nhs.uk/our-services/pathology">https://www.uhmb.nhs.uk/our-services/pathology</a>
<b>Testing performed by the Organisation at the locations specified below</b>		

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

#### Laboratory locations:

Location details	Activity	Location code
Blood Sciences Laboratory Royal Lancaster Infirmary Ashton Road Lancaster LA1 4RP  <b>Contact:</b> Stephen McDonald Tel: +44 (0)7866977925	Biochemistry Haematology Blood transfusion	RLI
Blood Sciences Laboratory Furness General Hospital Dalton Lane Barrow-in-Furness Cumbria LA14 4LF  <b>Contact:</b> Stephen McDonald Tel: +44 (0)7866977925	Biochemistry Haematology Blood transfusion	FGH
Blood Sciences Laboratory Westmoreland Hospital Burton Road Kendal Cumbria LA9 7RG  <b>Contact:</b> Stephen McDonald Tel: +44 (0)7866977925	Haematology Blood transfusion	WGH



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

Location details	Activity	Location code
Furness General Hospital Issue Fridge  <b>Key contact:</b> David Ryder E-mail: david.ryder@mbht.nhs.uk	Storage and issue of blood and blood products	FGH
Westmoreland General Hospital Issue Fridge Corridor outside Pathology Lab  <b>Key contact:</b> David Ryder E-mail: david.ryder@mbht.nhs.uk	Storage and issue of blood and blood products	WGH
Royal Lancaster Infirmary Issue Fridge Pathology Lab  <b>Key contact:</b> David Ryder E-mail: david.ryder@mbht.nhs.uk	Storage and issue of blood and blood products	RLI
Royal Lancaster Infirmary Issue Fridge Maternity Department  <b>Key contact:</b> David Ryder E-mail: david.ryder@mbht.nhs.uk	Storage and issue of blood and blood products	RLI
Royal Lancaster Hospital Issue Fridge Intensive Care Unit Centenary Building  <b>Key contact:</b> David Ryder E-mail: david.ryder@mbht.nhs.uk	Storage and issue of blood and blood products	ICU



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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 examinations for the purpose of clinical diagnosis</u>	Beckman Coulter AU5800 Spectrophotometry, turbidimetry and indirect potentiometry Using manufacturer's instructions and documented in-house procedures: SOP: BS MLC X 080 LP	FGH RLI
	Quantification of:		
Serum, Urine	Chloride	BS MLC X 007 LP	RLI, FGH
Serum, Urine	Potassium	BS MLC X 007 LP	RLI, FGH
Serum, Urine	Sodium	BS MLC X 007 LP	RLI, FGH
Serum	Alanine Transaminase	BS MLC X 019 LP	RLI, FGH
Serum,	Albumin	BS MLC X 015 LP	RLI, FGH
Serum	Alkaline Phosphatase	BS MLC X 018 LP	RLI, FGH
Serum	Ammonia	BS MLC X 038 LP	RLI, FGH
Serum	Amylase	BS MLC X 033 LP	RLI, FGH
Serum	Aspartate Transaminase	BS MLC X 020 LP	RLI, FGH
Serum	Bicarbonate	BS MLC X 042 LP	RLI, FGH
Serum	Bile acids	BS MLC R 047 LP	RLI
Serum	Bilirubin (Direct)	BS MLC X 045 LP	RLI, FGH
Serum	Bilirubin (Total)	BS MLC X 017 LP	RLI, FGH
Serum	Calcium	BS MLC X 014 LP	RLI, FGH
Serum	Cholesterol	BS MLC X 025 LP	RLI, FGH
Serum	Creatinine	BS MLC X 006 LP	RLI, FGH
Serum	Creatine Kinase	IFCC method BS MLC X 023 LP	RLI, FGH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Beckman Coulter AU5800 (cont'd)	FNH RLI
CSF	Glucose		RLI, FGH
CSF	Protein	BS MLC X 054 LP	RLI, FGH
Serum	GGT	IFCC method BS MLC X 052 LP	RLI, FGH
Serum	Gentamicin	Enzymatic method BS MLC X 034 LP	RLI, FGH
Serum	Glucose	hexokinase method BS MLC X 024 LP	RLI, FGH
Serum	High Density Lipoprotein	Enzymatic method BS MLC X 027 LP	RLI, FGH
Serum	Iron	TPTZ method BS MLC X 039 LP	RLI, FGH
Serum	Lactate dehydrogenase	BS MLC X 022 LP	RLI, FGH
Serum	Lithium	BS MLC X 036 LP	RLI, FGH
Serum	Magnesium	BS MLC X 021 LP	RLI, FGH
Serum	Paracetamol	BS MLC X 051 LP	RLI, FGH
Serum	Phosphate	BS MLC X 013 LP	RLI, FGH
Serum	Salicylate	BS MLC X 037 LP	RLI, FGH
Serum	Total protein	BS MLC X 016 LP	RLI, FGH
Serum	Triglyceride	Enzymatic method BS MLC X 026 LP	RLI, FGH
Serum	UIBC	Nitroso-PSAP BS MLC X 040 LP	RLI, FGH
Serum	Urate	BS MLC X 032 LP	RLI, FGH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis</u> (cont'd)	Beckman Coulter AU5800 (cont'd)	FNH RLI
Serum	Urea	BS MLC X 005 LP	RLI, FGH
Serum	Zinc	BS MLC X 043 LP	RLI
Urine	Albumin	Immuno Turbidometric method BS MLC X 053 LP	RLI, FGH
Serum	Alpha 1 antitrypsin	Immuno Turbidometric method BS MLC X 041 LP	RLI
Serum	Caeruloplasmin	BS MLC R 051 LP	RLI
Serum	Digoxin	Immuno Turbidometric method BS MLC X 035 LP	RLI
Plasma	Ethanol	Enzymatic BS MLC X 044 LP	RLI, FGH
Serum	IgA	Immuno Turbidometric method BS MLC X 028 LP	RLI
Serum	IgG	BS MLC X 029 LP	RLI, FGH
Serum	IgM	BS MLC X 030 LP	RLI, FGH
Serum	C Reactive protein	Immunoturbidometric methodBS MLC X 046 LP	RLI, FGH
Serum	Rheumatoid factor	Immunoturbidometric method BS MLC X 031 LP	RLI, FGH
Serum	Carbamazepine	EMIT BS MLC X 057 LP	FGH
Serum	Phenytoin	EMIT BS MLC X 056 LP	FGH
Serum	Theophylline	EMIT BS MLC X 036 LP	FGH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis</u> (cont'd)	Beckman Coulter Dxl 800 analyser (immunoassay technique) using manufacturer's instructions and documented in-house procedure SOP: BS IA X 001 LP	
Serum	Quantification of the following:		
Serum	Alpha Fetoprotein	BS IA X 002 LP	RLI
Serum	Beta hCG	BS IA X 006 LP	RLI, FGH
Serum	CA125	BS IA X 004 LP	RLI
Serum	CA199	BS IA X 005 LP	RLI
Serum	CEA	BS IA X 003 LP	RLI
Serum	DHEA	BS IA X 032 LP	FGH
Serum	Ferritin	BS IA X 029 LP	RLI, FGH
Serum	Folate	BS IA X 020 LP	RLI, FGH
Serum	FSH	BS IA X 011 LP	RLI, FGH
Serum	Free T3	BS IA X 009 LP	RLI, FGH
Serum	Free T4	BS IA X 008 LP	RLI, FGH
Serum	Growth Hormone	BS IA X 018 LP	RLI, FGH
Serum	LH	BS IA X 010 LP	RLI, FGH
Serum	Oestradiol	BS IA X 027 LP	RLI
Serum	Progesterone	BS IA X 028 LP	RLI, FGH
Serum	Prolactin	BS IA X 019 LP	RLI, FGH
Serum	PSA	BS IA X 013 LP	RLI, FGH
Serum	PTH	BS IA X 014 LP	RLI, FGH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Beckman Coulter Dxl 800 (cont'd)	
Serum	SHBG	BS IA X 017 LP	RLI, FGH
Serum	Testosterone	BS IA X 023 LP	RLI, FGH
Serum	TPO ab	BS IA X 022 LP	RLI
Serum	Troponin	BS IA X 015 LP	RLI, FGH
Serum	TSH	BS IA X 007 LP	RLI, FGH
Serum	Vitamin B12	BS IA X 024 LP	RLI, FGH
Serum	Vitamin D	BS IA X 033 LP	FGH
		Using manufacturer's instructions and documented in-house procedures	
Whole Blood	HbA1c	TOSOH G11 analyser HPLC SOP: BS HPLC X 011 LP	RLI, FGH
Serum	IGF1	Diasorin LiaisonXL analyser – Chemi-Luminescent Immunoassay (CLIA) SOP: BS IA F 002 LP	FGH
Serum	NTProBNP	VIDAS 3 Enzyme-linked fluorescent assay (ELFA) SOP: BS IA F 003 LP	FGH
	Osmolality	Advanced Instruments Osmometer Freezing point depression SOP: BS MAN X 011 LP	RLI, FGH
Serum	Protein classification including: Albumin Alpha-1 Alpha-2 Beta Gamma	Sebia Capillarys, electrophoresis, SOP: BS ELP R 003 LP	RLI



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Using manufacturer's instructions and documented in-house procedures	
Sweat	Chloride	Chlorocheck 3400 SOP BS MAN X 017LP	RLI
	<u>Haematological examinations for the purpose of clinical diagnosis</u>	Using manufacturer's instructions and documented in-house procedures	
EDTA whole blood	FBC including the following parameters: WBC RBC HGB HCT MCV MCH MCHC RDW-CV PLT NEUT LYMPH MONO EOS BASO	Beckman Coulter Unicell DxH800 analyser - Coulter principle, photometric and by calculation SOP: BS FBC X 001 LP	RLI, FGH, WGH
EDTA whole blood	Reticulocyte count	Beckman Coulter Unicell DxH800	RLI, FGH





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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examinations for the purpose of clinical diagnosis</u> (cont'd)	Using manufacturer's instructions and documented in-house procedures	
EDTA whole blood	FBC including the following parameters: WBC RBC HGB HCT MCV MCH MCHC RDW-CV PLT NEUT LYMPH MONO EOS BASO	Beckman Coulter DxH520 haematology analyser - Coulter principle, photometric and by calculation SOP: BS FBC X 010 LP	WGH
EDTA whole blood	Erythrocyte Sedimentation Rate (ESR)	Alifax TEST 1 ESR Analyser Modified Westergren method based on red cell kinetics SOP: BS HR X 001 LP	RLI, FGH
	<u>Coagulation examinations for the purpose of clinical diagnosis</u>	Using manufacturer's instructions and documented in-house procedures	
		ACL TOP 550 analysers ACL TOP 350 analyser Clotting, Chromogenic and Immunological assays SOP: BS COAG X 003 LP ACL TOP 300 analyser Clotting, Chromogenic and Immunological assays SOP: BS COAG X 002 LP	RLI, FGH
Citrated plasma	INR  APTT		WGH  RLI, FGH, WGH



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HUMAN BODY FLUIDS (cont'd)	<u>Coagulation examinations for the purpose of clinical diagnosis</u> (cont'd)	Using manufacturer's instructions and documented in-house procedures	
Citrated plasma	Fibrinogen		RLI, FGH, WGH
	D-dimer		
Citrated plasma	Xa		RLI, FGH
Citrated plasma	Lupus screen (APTT with RVV)		RLI, FGH
Citrated plasma	Protein C		RLI, FGH
Citrated plasma	Protein S		RLI, FGH
Citrated plasma	Antithrombin		RLI, FGH
EDTA whole blood	G6PD screen	Trinity Biotech, fluorescence chromatography SOP: BS HR X 047 LP	RLI
		Documented in-house methods to meet the requirements of the Sickle cell and Thalassaemia (SCT) screening programme screening programme(s) laboratory QA evidence requirements	
EDTA whole blood	Hb variants (HbA, A2, F)	TOSOH G11 HPLC analyser, fractionation SOPs: BS HR X 009 LP and BS HR X 010 LP	RLI
EDTA whole blood	HbS	Clintech Sickle test kit SOP: BS HR X 065 LP	RLI



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examinations for the purpose of clinical diagnosis</u>	Using manufacturer's instructions and documented in-house procedures	
EDTA Whole Blood	Blood film assessment including manual white blood cell differential count	Manual technique Modified Wrights stain and microscopy SOP: BS HR X 059 LP	RLI, FGH, WGH
EDTA blood	Malaria Blood film for detection of the following:  <i>Plasmodium falciparum</i> <i>Plasmodium malariae</i> , <i>Plasmodium ovale</i> <i>Plasmodium vivax</i> <i>Plasmodium knowlesi</i>	Thin films - Giemsa stain. SOP: BS HR X 076 LP SOP: BS HR X 062 LP	RLI, FGH
EDTA blood/plasma	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u>  Detection and identification of antigens: ABO Rh-C,D,E,c,e Cw Kell-K,k,Kpa Duffy-Fya.Fyb MNSs P,P1	Using manufacturer's instructions and documented in-house procedures  Automated:Ortho Clinical Diagnostics (OCD) Vision analyser Ortho BioVue System using column agglutination. Manual Method: OCD Ortho Biovue cassettes SOPs: BS TA X 001 LP,	RLI, FGH, WGH
EDTA blood/plasma	Detection and identification of: antibodies Rh -C,D,E,c,e, Cw Kell -K, K, Kpa Duffy -Fya, Fyb MNSs- M, N, S, s Kidd -JKa, Jkb P-P1 Anti-Chido/Rogers Kidd-Jka, Jkb Lewis-Lea, Leb Lutheran-Lua, Lub	Automated:OCD Vision analyser Ortho BioVue System using column agglutination. Manual Method: OCD Ortho Biovue cassettes SOP: BS TM X 032 LI	RLI, FGH, WGH



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u> (cont'd)	Using manufacturer's instructions and documented in-house procedures	
EDTA blood/plasma	Direct Antiglobulin Test (DAT)	OCD Vision Analyser Column agglutination technology BioVue DAT Specific (Anti-IgG, Anti-C3b/d, Control) cassette SOPs: BS TA X 001 LP	RLI, FGH, WGH
	Compatibility testing of patient plasma and donor cells	Automated - OCD Vision Analyser Manual - using gel card system SOPs: BS TM X 069 LI, BS TR X 012 LI	RLI, FGH, WGH
EDTA blood/plasma	Foetal Maternal Haemorrhage Test	Manual technique using Kleihauer acid elution staining SOP: BS TM X 048 LP	RLI, FGH, WGH
END			