


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO 15189:2012	University Hospitals of Morecambe Bay NHS Foundation Trust	
	Issue No: 001	Issue date: 11 December 2018
	Department of Blood Sciences Royal Lancaster Infirmary Ashton Road Lancaster LA1 4RP United Kingdom	Contact: Rachel Banks – Quality Manager Tel: +44 (0)1524 516178 E-Mail: rachel.banks@mbht.nhs.uk Website: https://www.uhmb.nhs.uk/our-services/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
Blood Sciences Laboratory Royal Lancaster Infirmary Ashton Road Lancaster LA1 4RP Contact: Rachel Banks Tel: +44 (0)1524 516178	Biochemistry Haematology Blood transfusion	RLI
Blood Sciences Laboratory Furness General Hospital Dalton Lane Barrow-in-Furness Cumbria LA14 4LF Contact: Rachel Banks Tel: +44 (0)1524 516178	Biochemistry Haematology Blood transfusion	FGH
Blood Sciences Laboratory Westmoreland Hospital Burton Road Kendal Cumbria LA9 7RG Contact: Rachel Banks Tel: +44 (0)1524 516178	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, Pathology, General Corridor Key contact: Rachael Williams E-mail:Rachael.Williams@mbht.nhs.uk	Storage and issue of blood and blood products	FGH
Westmoreland General Hospital, Issue Fridge, Corridor outside Pathology Lab Key contact: Rachael Williams Rachael.Williams@mbht.nhs.uk	Storage and issue of blood and blood products	WGH
Royal Lancaster Infirmary, Issue Fridge, Pathology Lab. Key contact: Rachael Williams Rachael.Williams@mbht.nhs.uk	Storage and issue of blood and blood products	RLI
Royal Lancaster Infirmary, Issue Fridge, Maternity Department. Key contact: Rachael Williams Rachael.Williams@mbht.nhs.uk	Storage and issue of blood and blood products	RLI
Royal Lancaster Hospital, Issue Fridge, Intensive Care Unit, Centenary Building. Key contact: Rachael Williams Rachael.Williams@mbht.nhs.uk	Storage and issue of blood and blood products	ICU
BMI Hospital, Issue Fridge, BMI, Meadowside Lancaster, LA1 3RH Key contact: Rachael Williams Rachael.Williams@mbht.nhs.uk	Storage and issue of blood and blood products	BMI



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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 AU2700 Beckman Coulter AU5800 Spectrophotometry, turbidimetry and indirect potentiometry Using manufacturer's instructions and documented in-house procedures SOP: BS MLC X 001 LP	FNH RLI
Serum unless stated	Quantification of:		
Serum, Sweat, Urine	Chloride		RLI, FGH
Serum, Urine	Potassium		RLI, FGH
Serum, Sweat, Urine	Sodium		RLI, FGH
Serum	Alanine Transaminase		RLI, FGH
	Albumin		RLI, FGH
	Alkaline Phosphatase		RLI, FGH
	Ammonia		RLI, FGH
	Amylase		RLI, FGH
	Aspartate Transaminase		RLI, FGH
	Bicarbonate		RLI, FGH
	Bile acids		RLI
	Bilirubin (Direct)		RLI, FGH
	Bilirubin (Total)		RLI, FGH
	Calcium		RLI, FGH
	Cholesterol		RLI, FGH
	Creatinine		RLI, FGH
	Creatine Kinase	IFCC method	RLI, FGH



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HUMAN BODY FLUIDS	Biochemistry examinations for the purpose of clinical diagnosis	Beckman Coulter AU2700 Beckman Coulter AU5800 (cont'd)	FNH RLI
CSF	Glucose		RLI, FGH
CSF	Protein		RLI, FGH
Serum unless stated	GGT	IFCC method	RLI, FGH
	Gentamicin	Enzymatic method	RLI, FGH
	Glucose	hexokinase method	RLI, FGH
	High Density Lipoprotein	Enzymatic method	RLI, FGH
	Iron	TPTZ method	RLI, FGH
	Lactate	Enzymatic method	RLI, FGH
	Lactate dehydrogenase		RLI, FGH
	Lithium		RLI, FGH
	Magnesium		RLI, FGH
	Paracetamol		RLI, FGH
	Phosphate		RLI, FGH
	Salicylate		RLI, FGH
	Total protein		RLI, FGH
	Triglyceride	Enzymatic method	RLI, FGH
	UIBC	Photometric method	RLI, FGH
	Urate		RLI, FGH
	Urea		RLI, FGH
	Zinc		RLI



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examinations for the purpose of clinical diagnosis (cont'd)</u>	Beckman Coulter AU2700 Beckman Coulter AU5800 (cont'd)	FNH RLI
Urine	Creatinine	Modified Jaffe method	RLI, FGH
Urine	Amylase		RLI, FGH
Urine	Calcium		RLI, FGH
Urine	Magnesium	Xylidl blue method	RLI, FGH
Urine	Phosphate		RLI, FGH
Urine	Protein		RLI, FGH
Urine	Urate		RLI, FGH
Urine	Urea		RLI, FGH
Urine	Albumin	Immuno Turbidometric method	RLI, FGH
Serum	Copper		RLI
Serum unless stated	Alpha 1 antitrypsin	Immuno Turbidometric method	RLI
	Caeruloplasmin		RLI
	Digoxin	Immuno Turbidometric method	RLI
	Ethanol	Enzymatic	RLI, FGH
	Free light chains	Turbidometric method	RLI, FGH
	IgA	Turbidometric method	RLI
	IgG		RLI, FGH
	IgM		RLI, FGH
	C Reactive protein	Latex method	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 AU2700 Beckman Coulter AU5800 (cont'd)	FNH RLI
Serum unless stated	Rheumatoid factor	Latex method	RLI, FGH
	Carbamazapine	Cedia method	FGH
	Phenytoin	Cedia method	FGH
	Theophylline	Cedia method	FGH
	Angiotensin Converting Enzyme (ACE)	Audit FAPG third party method	FGH
Serum unless stated	Quantification of the following:	Beckman Coulter Dxl 800 analyser (immunoassay technique) using manufacturer's instructions and documented in-house procedure SOP: BS IA X 001 LP	
	Alpha Fetoprotein		RLI
	Beta hCG		RLI, FGH
	CA125		RLI
	CA199		RLI
	CEA		RLI
	DHEA		FGH
	Ferritin		RLI, FGH
	Folate		RLI, FGH
	FSH		RLI, FGH
	Free T3		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 unless stated	Free T4		RLI, FGH
	Growth Hormone		RLI, FGH
	IgE		FGH
	LH		RLI, FGH
	Oestradiol		RLI
	Progesterone		RLI, FGH
	Prolactin		RLI, FGH
	PSA		RLI, FGH
	PTH		RLI, FGH
	SHBG		RLI, FGH
	Testosterone		RLI, FGH
	TPO ab		RLI
	Troponin		RLI, FGH
	TSH		RLI, FGH
	Vitamin B12		RLI, FGH
	Vitamin D		FGH



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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	
Whole Blood	HbA1c	TOSOH G8 analyser HPLC SOP: BS HPLC X 001 LP	RLI, FGH
Whole Blood	Blood gases including: pH, pCO ₂ , PO ₂ , cHCO ₂ , SO ₂ (c), BE, COHb, MetHb, O ₂ Hb, tHb, ctCO ₂ (B) Na, K, Ca, ctCO ₂ (P), pHt, PCO ₂ , PO ₂ , H	Roche Cobas b221 using Potentiometry, Spectrophotometry, Cooximetry SOP: BS POC X 001 LP,	RLI, FGH
Serum	IGF1	Diasorin Liaison analyser – Chemi-Luminescent Immunoassay (CLIA) SOP: BS IA F 002 LP	FGH
Serum	NTProBNP Procalcitonin	VIDAS 3 Enzyme-linked fluorescent assay (ELFA) SOP: BS IA F 003 LP	FGH
	Osmolality	VITECH 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 001 LP	RLI
Urine	Monoclonal Immunoprotein (Bence Jones Protein)	Sebia Capillarys, electrophoresis and immune fixation SOP: BS ELP R 001 LP	RLI
Sweat	Chloride	Chlorocheck 3400 SOP BS MAN X 017LP	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	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
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 LH500 haematology analyser - Coulter principle, photometric and by calculation SOP: BS FBC W 001 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 060 LP	RLI, FGH



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HUMAN BODY FLUIDS (cont'd)	<u>Coagulation examinations for the purpose of clinical diagnosis</u>	Using manufacturer's instructions and documented in-house procedures	
Citrated plasma	INR	ACL TOP 300 and 500 analyser Clotting, Chromogenic and Immunological assays SOP: BS COAG X 002 LP	RLI, FGH
Citrated plasma	APTT	ACL TOP 300 analyser Clotting, Chromogenic and Immunological assays SOP: BS COAG X 002 LP	WGH
Citrated plasma	Fibrinogen		RLI, FGH, WGH
Citrated plasma	D-dimer		RLI, FGH, WGH
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
EDTA whole blood	Hb variants	TOSOH G8 HPLC analyser, fractionation SOP: BS HR X 009 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> (cont'd)	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/plasma	Infectious Mononucleosis heterophile IgM antibodies	Alere Clearview Innovacon - diagnostic test strip rapid lateral flow chromatographic qualitative immunoassay SOP: BS HR x 061 LP	RLI, FGH
EDTA blood/plasma	Malarial parasites screen for detection of the following: <i>Plasmodium falciparum</i> <i>Plasmodium malariae</i> , <i>Plasmodium ovale</i> <i>Plasmodium vivax</i>	Binax NOW immunochromatographic assay – lateral flow SOP: BS HR X 063 LP	RLI, FGH
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>	Wright's stained blood film Thick and Thin Films spread manually Thin films - Giemsa stain. Thick films - Field's Stain SOP: BS HR X 062 LP	RLI, FGH



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HUMAN BODY FLUIDS	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u>	Using manufacturer's instructions and documented in-house procedures	
EDTA blood/plasma	Detection and identification of antigens: ABO Rh-C,D,E,c,e Cw Kell-K,k,Kpa Duffy-Fya.Fyb MNSs P,P1	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, BS TA X 031 LI, BS TA X 032 LI, BS TA X 033 LI, BS TA X 034 LI	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 TA X 015 LP	RLI, FGH, WGH
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, BS TA X 031/32/33/34 LI	RLI, FGH, WGH
EDTA blood/plasma	Compatibility testing of patient plasma and donor cells	Automated - OCD Vision Analyser Manual - using gel card system SOPs: BS TA X 031/32/33/34 LI	RLI, FGH, WGH
EDTA blood/plasma	Foetal Maternal Haemorrhage Test	Manual technique using Kleihauer acid elution staining SOP: BS TM X 048 LI	RLI, FGH, WGH
END			