Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

8793

Accredited to ISO 15189:2022

HSL (Analytics) LLP

Issue No: 013 **Issue date:** 26 August 2026

HSL (Analytics) LLP
The Halo Building
1 Mabledon Place
London
WC1H 9AJ

Contact: Jacqueline Sutherland
Tel: +44 (0) 20 7307 7342
E-Mail: jacqueline.sutherland@hslpathology.com
Website: www.hslpathology.com

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
Rapid Response Laboratory Royal Free Hospital Pond Street London NW3 2QG United Kingdom	**Local contact** Jacqueline Sutherland	Biochemistry Haematology Blood Transfusion Virology	A
A&E Laboratory Royal Free Hospital Pond Street London NW3 2QG United Kingdom	Jacqueline Sutherland	Virology	B

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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
Blood Issue fridges Accident & Emergency Department Royal Free Hospital Pond Street London NW3 2QG	Blood issue fridge for storage of blood products only; no testing occurs at this site	
Blood Issue fridges 11th Floor Royal Free Hospital Pond Street London NW3 2QG	Blood issue fridge for storage of blood products only; no testing occurs at this site	
Blood Issue fridges 10 South Vindon Royal Free Hospital Pond Street London NW3 2QG	Blood issue fridge for storage of blood products only; no testing occurs at this site	
Blood Issue fridges Labour Ward Royal Free Hospital Pond Street London NW3 2QG	Blood issue fridge for storage of blood products only; no testing occurs at this site	
Blood Issue fridges Intensive Care Unit Royal Free Hospital Pond Street London NW3 2QG	Blood issue fridge for storage of blood products only; no testing occurs at this site	

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS	General Biochemistry		
	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of:	In house documented procedures based on equipment manuals and standard methods as specified:	
Serum / Plasma (unless otherwise stated)		Ion Sensitive Electrode module by indirect potentiometry using c702 module on Roche Cobas 8000 system SOP BIO-003 to 009	A
Urine also	Chloride		
Urine also	Potassium		
Urine also	Sodium		
		e602 module by electro-chemiluminescence immunoassay on Roche Cobas 8000 system with the following SOP BIO-003 to 009	A
	Digoxin		
	Human Chorionic Gonadotrophin		
	Parathyroid Hormone		
Serum only	Procalcitonin		
	T3 (Free)		
	Thyroxine FT4		
	Troponin T		
	Thyroid Stimulating Hormone		
Serum / Plasma (unless otherwise stated)		Photometry using Roche Cobas c702 module SOP BIO-MP1-8 BIO-MP1-7 BIO-MP1-37	A
	Albumin	Colourimetry	
Urine only	Albumin	Immunoturbidimetry	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	General Biochemistry (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified:	
Serum / Plasma (unless otherwise stated)	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	Photometry using Roche Cobas c702 module SOP BIO-MP1-8 BIO-MP1-7 BIO-MP1-37	A
Urine only	Albumin: Creatinine ratio	by calculation	
	Alanine Aminotransferase	Tris buffer with PLP IFCC	
	Alkaline Phosphatase	IFCC Schuman method	
	Amikacin	Kinetic KIMS	
Urine also	Amylase	Enzymatic Colorimetric G7 Substrate IFCC	
Plasma only	Ammonia	Enzymatic with glutamate dehydrogenase	
	Aspartate Aminotransferase	Tris buffer with PLP	
	Bicarbonate	PEP Carboxylase	
	Bilirubin (direct)	Diazo	
	Bilirubin (total))	Colourimetry	
Urine also	Calcium	NM-BAPTA	
	Calcium : Creatinine ration	by calculation	
	Calcium (corrected)	by calculation	
	Cholesterol	Enzymatic Colourimetry	
	Cholesterol (HDL & LDL)	Homogeneous Enzymatic Colourimetry	
	Cholesterol (LDL)	by calculation	
	Cholesterol (non-HDL)	by calculation	
	Cholesterol (HDL-C ratio)	by calculation	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	General Biochemistry (cont'd)		
	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified: Photometry using Roche Cobas c702 module SOP BIO-MP1-8 BIO-MP1-7 BIO-MP1-37	A
Serum and Urine	Creatinine (Enzymatic)	Enzymatic	
	C-Reactive Protein	Particle enhanced immunoturbidimetry	
	Creatinine Kinase	UV Test NAC IFCC	
Plasma only	Ethanol	Enzymatic with alcohol dehydrogenase	
	Estimated Glomerular Filtration rate	by calculation	
	Gamma Glutamyl Transferase	Enzymatic Colorimetric Carboxynitroanilide IFCC	
	Gentamicin	Turbidimetry	
Urine & CSF also	Glucose	UV test Hexokinase + G6PD	
	Iron	Colorimetric Ferrozine	
	Iron Binding Capacity (Total)	by calculation	
Plasma & CSF	Lactate	Colorimetry	
	Lactate Dehydrogenase	UV assay (L to P glucamine) IFCC	
	Lithium	Colorimetry	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	General Biochemistry (cont'd)		
Serum / Plasma (unless otherwise stated)	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified: Photometry using Roche Cobas c702 module SOP BIO-MP1-8 BIO-MP1-7 BIO-MP1-37	A
Urine also	Magnesium	Colorimetric Xylidyl Blue	
	Paracetamol	Enzymatic colorimetry	
Urine also	Phosphate	Molybdate UV	
	Protein (total)	Colorimetric Biuret	
Urine & CSF only	Protein (total)	Turbidimetry	
Urine	Protein: Creatinine ratio	by calculation	
	Salicylate	Enzymatic	
	Triglycerides	Enzymatic Colorimetric Glycerol GPO	
	Unsaturated Iron Binding Capacity	Ferrozine absorbance	
Urine also	Urea	Kinetic urease	
Urine also	Uric Acid	Enzymatic Colorimetry	
	Vancomycin	Turbidimetry	
	Calcium (corrected)	by calculation	
	Estimated Glomerular Filtration rate	by calculation	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	General Biochemistry (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified:	
	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of: (cont'd)	Photometry using Roche Cobas c702 module SOP BIO-MP1-8 BIO-MP1-7 BIO-MP1-37	A
24-hour urine	Albumin Calcium Creatinine Creatine clearance Potassium Magnesium Sodium Phosphate Chloride Protein: Creatinine ratio Protein Uric acid Urea		
Urine and Serum	Creatinine Clearance	By calculation in Middleware LIMS	A
Calculation	eGFR	By calculation in Middleware LIMS	A
Whole Blood	HbA1c	Ion-exchange high performance liquid chromatography using TOSOH G8 SOP BIO-RFH-004	A
Serum & urine	Osmolality	Freezing point depression using Advanced Instruments OsmoPRO MAX SOP BIO-60RR-2	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		
	Haematological examination activities for the purposes of clinical diagnosis.	In house documented procedures based on equipment manuals and standard methods as specified:	
EDTA Blood	Full Blood Count:	Measurement principles as described using Sysmex XN10 & XN20 modules on XN9000 system SOP HAE-001	A
	White blood cells, neutrophils, lymphocytes, eosinophils, monocytes, basophils, nucleated red blood cells, reticulocytes	by fluorescence flow cytometry	A
	Red blood cells, platelets	by hydrodynamic focusing	A
	Haemoglobin	by SLS photometry	A
	Mean cell volume, mean cell haemoglobin, mean cell haemoglobin concentration, red cell distribution width, immature platelet fraction	by calculation	A
Peripheral Blood	Blood film assessment & cell differential	Staining with May Grunwald & Giemsa stain manually or using SP10 and RAL staining machines followed by microscopy SOPs HAE-RFH-012, HAE-RRL-004 & HAE-003	A
EDTA Blood	Erythrocyte sedimentation rate	Automated using Starrsed Interrliner and Auto-Compact Analysers SOP HAE-007	A
Serum / plasma	Detection of Infectious Mononucleosis Heterophile Antibody	Immunoassay using Accusay Mono SOP HAE-RFH-002	A
EDTA Blood	Presence / absence of Plasmodium sp.	Fluorescence microscopy and Quantitative Buffy Coat Analysis using QBC Malaria kit HAE-RFH-001	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 (cont'd)		
	Haematological examination activities for the purposes of clinical diagnosis. (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified:	
EDTA Blood	Detection of Plasmodium falciparum, P. ovale, P. malariae and p. vivax	Immunochromatography using Binax NOW kit HAE-RFH-009	A
EDTA Blood	Malaria speciation and quantitation	Giemsa stain and manual microscopy HAE-RFH-009	A
Whole Blood	Detection of Sickle Cell Abnormal Haemoglobin	Helena Sickle Solubility Screen kit SOP WSL-AH-018	A
Plasma	Coagulation: Prothrombin Time International Normalised ratio Activated Partial Thromboplastin Time (APTT) Thrombin Time APTT ratio Fibrinogen-Clauss D-Dimer	Light absoprtion using Sysmex CS5100 SOP COAG-006 to 009	A

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</u>		
	General examination activities for the purposes of clinical diagnosis:	In house documented procedures in conjunction with equipment manuals and standard methods as specified below:	
EDTA Blood	Blood group (including newborn)		A
	A Rh D positive A Rh D negative O Rh D positive O Rh D negative B Rh D positive B Rh D negative AB Rh D positive AB Rh D negative	Automated using Ortho Vision Max Analyser SOP BT-098 Manual using Ortho Cassettes and tube method SOP BT-139	
EDTA Blood	Antibody detection and identification (including newborn) Rh: D, C, E, c, e, C^W Kell: K, k, kp^a, kp^b, Js^a, Js^b Duffy: Fy^a, Fy^b Kidd: Jk^a, Jk^b Lewis: Le^a, Le^b P: P_1 MNS: M, N, S, s Luth: Lu^a, Lu^b Xg: Xg^a	Automated using Ortho Vision Max Analyser SOP BT-101 Manual method using cassettes, enzyme panels and tube method SOP BT-139	A
EDTA Blood	Direct Antiglobulin test (including newborn)	Automated using Ortho Vision Max Analyser SOP BT-103 Manual using Ortho Cassettes SOP BT-103	A
EDTA Blood	Detection of Foetal Haemoglobin and cells	Manual method using Guest Scientific Kleihauer test SOP BT-104	A
EDTA Blood	Antigen phenotyping : Rh: C, E, c, e, C^W Kell: K	Automated using Ortho Vision Max Analyser SOP BT-098	A

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</u> (cont'd)		
EDTA Blood	Antigen phenotyping: Rh: C, E, c, e, C^W Kell: K, Kp^a Duffy: Fy^a, Fy^b Kidd: JK^a, Jk^b MNSs: M, N, S, s Lewis: Le^a, Le^b	Manual using Ortho Cassettes and tube method SOP BT-138	A
	General examination activities for the purposes of clinical diagnosis: (cont'd)	In house documented procedures in conjunction with equipment manuals and standard methods as specified below:	
EDTA Blood	Compatibility testing of patient's plasma with donor cells	Manual using Ortho cassettes SOP BT-119 Electronic issue SOP BT-120	A
	<u>Virology</u> Examination activities for the purpose of clinical diagnosis		
Nasopharyngeal swabs in viral transport media	Detection of SARS CoV-2 virus RNA (COVID-19) specific gene sequences; E gene & N2 gene Flu A Flu B RSV	PCR Cepheid GeneXpert and Xpert Xpress SARS-CoV-2 Flu RSV assay SOP HAE-RFRR-22	A & B
Serum	Quantification of: Hepatitis B Surface Antigen Hepatitis C antibody HIV 1 & 2 Antibody and p24 Antigen	Immunoassay using Roche Cobas 8000 and e602 module. SOP BIO-MP1-8	A
END			