


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS MEDICAL 9354 Accredited to ISO 15189:2012	HSL (Analytics) LLP	
	Issue No: 009 Issue date: 10 September 2024	
	Rapid Response Laboratory North Middlesex University Hospital Sterling Way London N18 1QX	Contact: Jacqueline Sutherland Tel: +44 (0) 207 307 7342 E-Mail: Jacqueline.sutherland@hslpathology.com Website: www.hslpathology.com
Testing performed at the above address only		

Site activities performed away from the locations listed above:

Location details		Activity
Address A & E Department North Middlesex University Hospital Sterling Way London N18 1QX	Local contact Jacqueline Parvu	Blood issue fridge for storage of blood products only; no testing occurs at this site
Theatre Site North Middlesex University Hospital Sterling Way London N18 1QX	Jacqueline Parvu	Blood issue fridge for storage of blood products only; no testing occurs at this site
Labour Ward North Middlesex University Hospital Sterling Way London N18 1QX	Jacqueline Parvu	Blood issue fridge for storage of blood products only; no testing occurs at this site



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS	<u>General Biochemistry</u> 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 on Roche Cobas 8000 system by ISE method SOP BIO-MP1-8
Urine also	Sodium	
Urine also	Potassium	
Urine also	Chloride	
	Digoxin	e602 module on Roche Cobas 8000 system by immunoassay SOP BIO-MP1-8
	Free Thyroxine	
	Total Human Chorionic Gonadotrophin	
	Thyroid Stimulating Hormone	
	Troponin T	
	Ferritin	
	Albumin	Photometry using Roche Cobas c702 module SOP BIO-MP1-8 BIO-MP1-7 BIO-MP1-37
Urine also	Amylase	
	Alkaline Phosphatase	
	Alanine Transaminase	



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HUMAN BODY FLUIDS	<u>General Biochemistry</u> Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of:	In house documented procedures based on equipment manuals and standard methods as specified: c702 module on Roche Cobas 8000 system by photometry SOP BIO-MP1-8
	Ammonia	
	Aspartate Aminotransferase	
	Bicarbonate	
	Bilirubin (conjugated)	
	Bilirubin (total)	
Urine also	Calcium	
	Carbamezepine	
	Cholesterol (HDL)	
Serum and Urine	Creatinine (Enzymatic)	
	C Reactive Protein	
	Cholesterol	
CSF also	Gamma Glutamyl Transferase	
	Gentimicin	
	Glucose	
	Iron	
CSF also	Lactate	
	Lactate Dehydrogenase	
	Lithium	



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HUMAN BODY FLUIDS	<u>General Biochemistry</u> Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of:	In house documented procedures based on equipment manuals and standard methods as specified: c702 module on Roche Cobas 8000 system by photometry SOP BIO-MP1-8
Urine also	Magnesium	
Urine only	Microalbumin	
	Paracetamol	
	Phenytoin	
Urine also	Phosphate	
Urine also	Protein (total)	
	Salicyclate	
	Triglycerides	
Urine also	Urea	
	Unsaturated Iron Binding Capacity	
	Valproate	
Urine and Serum	Creatinine Clearance	By calculation in Middleware LIMS
Calculation	eGFR Calcium (adjusted)	By calculation in Middleware LIMS
	Glomerular Filtration Rate (estimated)	
Urine	Protein: Creatinine ratio	
Urine	Creatinine: Albumin ratio	



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HUMAN BODY FLUIDS	<p><u>General Biochemistry</u></p> <p>Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of:</p>	In house documented procedures based on equipment manuals and standard methods as specified:
Serum & urine	Osmolality	Freezing point depression using Micro-Osmometer 3320 SOP BIO-NMRR-2
Urine	Human Chorionic Gonadotrophin	Immunochromatography using Quadratech Check-4 dip-strips SOP BIO-NMRR-5
Whole blood	HbA1c	using TOSOH G11 SOP-BIO-NMRR-13
HUMAN BODY FLUIDS (cont'd)	<p><u>Haematology</u></p> <p>Haematological examination activities for the purposes of clinical diagnosis.</p>	In house documented procedures based on equipment manuals and standard methods as specified:
EDTA Blood	<p>Full Blood Count:</p> <p>White blood cells, neutrophils, lymphocytes, eosinophils, monocytes, basophils, nucleated red blood cells, reticulocytes</p> <p>Red blood cells, platelets</p> <p>Haemoglobin</p> <p>Mean cell volume, mean cell haemoglobin, mean cell haemoglobin concentration, red cell distribution width, mean platelet volume, immature platelet fraction</p> <p>Haematocrit</p>	<p>Light scatter and adsorption using Sysmex XN-9000 and the following measurement principles: SOP HAE-60RR-3</p> <p>by fluorescence flow cytometry</p> <p>by impedance</p> <p>by SLS photometry</p> <p>by calculation</p> <p>by cumulative pulse measurement</p>



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology</u>	
Whole Blood	Haematological examination activities for the purposes of clinical diagnosis.	In house documented procedures based on equipment manuals and standard methods as specified:
EDTA Blood	Blood film assessment & cell differential	Staining with May Grunwald Giemsa stain manually or using Sysmex SP-10 Automated Blood Film Maker and Stainer followed by microscopy SOPs HAE-NMRR-14 & HAE-NMRR-15
Whole Blood	Erythrocyte sedimentation rate	Starrsed Interrliner SOP HAE-NMRR-17
Plasma	Detection of Plasmodium falciparum Histidine-rich Protein 2	Immunochromatography using Carestart Malaria Rapyd test SOP HAE-60RR-23
Whole Blood	Detection of P. falciparum, P. vivax, P. malariae and P. ovale Pan Specific Lactate Dehydrogenase	
Plasma	Coagulation: Prothrombin Time International Normalised ratio Activated Partial Thromboplastin Time (APTT) APTT ratio Fibrinogen-Clauss D-Dimer	Percentage detection using light transmission and immunoturbidimetry using Sysmex CS2500 SOP HAE-NMRR-20
Whole Blood	Detection of intra-erythrocyte parasites	Staining using Field, Giemsa pH 7.2, May-Grunwald and Giemsa stains using the XN9000 RAL staining machine followed by microscopy SO PHAE-NMRR-22
Whole Blood	Quantitation of Haemoglobin F and Haemoglobin S	High performance liquid chromatography using Bio-Rad Variant II SOP HAE-NMRR-1
Serum / Plasma	Detection of Infectious Mononucleosis Heterophile Antibody	Immunoassay using Clearview IM kit SOP HAE-NMRR-2



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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:
Bone Marrow	Detection of normal and abnormal cell lines	Manual staining with May Grunwald and Giemsa stains followed by microscopy examination SOP HAE-NMRR-13
EDTA Blood	Blood group: 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	BioVue Technology using Ortho Vision Analyser (automated) SOPs BTF-RFRR-60 & BTF-RFRR-38 BioVue Technology using glass bead cassettes (manual) SOP BTF-RFRR-52 & SOP BTF-RFRR-38
EDTA Blood	Antibody detection and identification 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	BioVue Technology using Ortho Vision Analyser (automated) SOP BTF-RFRR-60 BioVue Technology using glass bead cassettes (manual) BTF-RFRR-47
EDTA Blood	Antigen phenotyping: Rh: C, E, c, e, C ^w Kell: K	BioVue Technology using Ortho Vision Analyser (automated) BTF-RFRR-60 BioVue Technology using glass bead cassettes (manual) BTF-RFRR-51
EDTA Blood	Serological crossmatch	BioVue Technology by manual method BTF-RFRR-40



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion</u> 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	Crossmatch compatibility	Calculation and electronic issue BTF-RFRR-41
EDTA Blood	Detection of Foetal Haemoglobin and cells	Manual Kleihauer method using Betke test BTF-RFRR-27
EDTA Blood	Direct Antiglobulin test	BioVue Technology using Ortho Vision Analyser (automated) BTF-RFRR-60 BioVue Technology using glass bead cassettes (manual) BTF-RFRR-51
HUMAN BODY FLUIDS	<u>Virology</u> Examination activities for the purpose of clinical diagnosis	
Nasal swabs	Detection of Flu A / Flu B / RSV & SARS-CoV-2 RNA (E, N2)	Polymerase chain reaction using Cepheid GeneXpert and Xpert Xpress SARS-CoV-2 kit SOP PCR2-MP5-49
Serum	Serological detection of: Anti HCV II HIV Combi PT HBsAg II	Roche Cobas 8000 using e602 module SOP BIO-MP1-8



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HUMAN BODY FLUIDS	<u>Andrological examination activities for the purposes of clinical diagnosis</u>	
Semen	<u>Post vasectomy</u> Detection of sperm Sperm concentration	Based on 2016 Laboratory guidelines for post vasectomy semen analysis: Association of Biomedical Andrologists, the British Andrology Society and the British Association of Urological Surgeons) Manual method using large volume disposable chambers and microscopy SOP AND-76WP-4
Semen	<u>Fertility testing</u> Volume pH Sperm morphology including TZI scoring Sperm concentration Sperm motility Sperm vitality <u>IgA / IgG antibodies</u>	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method / documented in-house procedure SOP AND-76WP-1 Volume/weight Colorimetric strips Stained slides (Papanicolau) microscopy (Bright field) Microscopy (Phase contrast) Microscopy (Phase contrast) Stained slide (Vital Stain) microscopy MAR test
END		