Schedule of Accreditation

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Accredited to ISO 15189:2022

HSL (Analytics) LLP

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Rapid Response Laboratory
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Testing performed at the above address only

Site activities performed away from the locations listed above:

Location details		Activity
Address	**Local contact**	
A & E Department North Middlesex University Hospital Sterling Way London N18 1QX	Shazia Yasin	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	Shazia Yasin	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	Shazia Yasin	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
	<u>General Biochemistry</u>	
HUMAN BODY FLUIDS	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	
		e602 module on Roche Cobas 8000 system by immunoassay SOP BIO-MP1-8
	Digoxin	
	Free Thryoxine	
	Total Human Chorionic Gonadotrophin	
	Thyroid Stimulating Hormone	
	Troponin T	
Serum	Pre-Eclampsia Screen (tests sFLt-1/PIGF Ratio)	
	Ferritin	
		Photometry using Roche Cobas c702 module SOP BIO-MP1-8 BIO-MP1-7 BIO-MP1-37
	Albumin	
Urine also	Amylase	
	Alkaline Phosphatase	
	Alanine Transaminase	

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	General Biochemistry	
HUMAN BODY FLUIDS	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
Serum	Amikacin	
	Alkaline Phosphatase	
	Alanine Transaminase	
	Ammonia	
	Aspartate Aminotransferase	
	Bicarbonate	
	Bilirubin (conjugated)	
	Bilirubin (total)	
Urine also	Calcium	
	Carbamezepine	
	Cholesterol (HDL)	
Serum	Creatinine Kinase	
Serum and Urine	Creatinine (Enzymatic)	
Urine	Creatinine: Calcium Ratio	By calculation in Middleware LIMS
	C Reactive Protein	
	Cholesterol	
	Gamma Glutamyl Transferase	
	Gentimicin	

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	<u>General Biochemistry</u>	
HUMAN BODY FLUIDS	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
CSF also	Glucose	
	Iron	
CSF also	Lactate	
	Lactate Dehydrogenase	
	Lithium	
Serum	LDL Cholesterol	
Urine also	Magnesium	
Urine only	Microalbumin	
	Paracetamol	
	Phenytoin	
Urine also	Phosphate	
Urine and CSF also	Protein (total)	
	Salicylate	
Serum	Total Iron Binding Capacity (TIBC)	By calculation in Middleware LIMS
	Triglycerides	
Urine and Serum	Urate	
Urine also	Urea	

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	General Biochemistry	
HUMAN BODY FLUIDS	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 and serum	Urate: Creatinine Ratio	By calculation in Middleware LIMS
	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	
Urine	Renal Tubular Reabsorption of Phosphate	By calculation in Middleware LIMS
Serum & urine	Osmolality	Freezing point depression using Advanced Instruments OsmoPRO MAX SOP BIO-60RR-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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Haematology	
HUMAN BODY FLUIDS (cont'd)	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:	Light scatter and adsorption using Sysmex XN-9000 and the following measurement principles: SOP HAE-60RR-3
	White blood cells, neutrophils, lymphocytes, eosinophils, monocytes, basophils, nucleated red blood cells, reticulocytes	by fluorescence flow cytometry
	Red blood cells, platelets	by impedance
	Haemoglobin	by SLS photometry
	Mean cell volume, mean cell haemoglobin, mean cell haemoglobin concentration, red cell distribution width, mean platelet volume, immature platelet fraction	by calculation
	Haematocrit	by cumulative pulse measurement
Whole 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
EDTA Blood	Erythrocyte sedimentation rate	Starrsed Interrliner SOP HAE-NMRR-17

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Haematology	
HUMAN BODY FLUIDS (cont'd)	Haematological examination activities for the purposes of clinical diagnosis.	In house documented procedures based on equipment manuals and standard methods as specified:
Whole Blood	Detection of Plasmodium falciparum Histidine-rich Protein 2 Detection of P. falciparum, P. vivax, P. malariae and P. ovale Pan Specific Lactate Dehydrogenase	Immunochromatography using Carestart Malaria Rapyd test SOP HAE-60RR-23
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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Blood Transfusion	
HUMAN BODY FLUIDS (cont'd)	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: 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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Blood Transfusion	
HUMAN BODY FLUIDS (cont'd)	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:
	Crossmatch compatibility	Calculation and electronic issue BTF-RFRR-41
EDTA Blood	Detection of Foetal Haemoglobin and cells	Manual Kleihauer method using Guest Medical kit 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	Virology 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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS	Andrological examination activities for the purposes of clinical diagnosis	
Semen	Post vasectomy 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	Fertility testing	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	Volume/weight
	pH	Colorimetric strips
	Sperm morphology including TZI scoring	Stained slides (Papanicolau) microscopy (Bright field)
	Sperm concentration	Microscopy (Phase contrast)
	Sperm motility	Microscopy (Phase contrast)
	Sperm vitality	Stained slide (Vital Stain) microscopy
	IgA / IgG antibodies	MAR test
	Fructose (Seliwanoff's)	Seliwanoff's method using AND-76WP-9
END		