


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 9569 Accredited to ISO 15189:2012	NHS Greater Glasgow and Clyde	
	Issue No: 009 Issue date: 23 June 2023	
	Biochemistry Department Queen Elizabeth University Hospital Laboratory Medicine and FM Building 1345 Govan Road Glasgow G51 4TF United Kingdom	Contact: Clare Menzies Tel: +44 (0) 0141 354 9031 E-Mail: clare.menzies@ggc.scot.nhs.uk
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
Address Biochemistry Department Queen Elizabeth University Hospital Laboratory Medicine and FM Building 1345 Govan Road Glasgow G51 4TF	Local contact Clare Menzies 0141 354 9031	Clinical Chemistry Toxicology Metabolics	A

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Laboratory Victoria Ambulatory Care Hospital Grange Rd, Glasgow G42 9LF	Local contact Clare Menzies 0141 354 9031	Core Chemistry HbA1c	B



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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 TISSUES AND FLUIDS	Examination activities for the purposes of clinical diagnosis	In-house documented procedures and manufacturers instructions	
	Core Chemistry	Abbott Architect C16000	A
		Abbott Architect C4000	B
Serum/Plasma	<ul style="list-style-type: none"> CRP 	Turbidimetric LP_C_001/2	A and B
Serum/Plasma	<ul style="list-style-type: none"> Albumin Alkaline Phosphatase ALT AST Bicarbonate Total Bilirubin Calcium Creatinine Gamma-GT Phosphate Total Protein Urate Urea Glucose 	Spectrophotometry-Absorbance LP_C_001/2	A and B
	<ul style="list-style-type: none"> Amylase Urate 		A
Serum/Plasma	<ul style="list-style-type: none"> Chloride Potassium Sodium 	Ion selective electrode (ISE) LP_C_001/2	A and B



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HUMAN TISSUES AND FLUIDS	Examination activities for the purposes of clinical diagnosis	In-house documented procedures and manufacturers instructions	A
Serum/Plasma	<ul style="list-style-type: none"> • Albumin • ALP • ALT • Amylase • AST • Bicarbonate • Total Bilirubin • Calcium • Creatinine • Glucose • Phosphate • Urate • Urea 	Abbott Alinity ci Spectrophotometry-Absorbance SOP LP_C_012	
	<ul style="list-style-type: none"> • Chloride • Potassium • Sodium 	Ion selective electrode (ISE) SOP LP_C_012	
	<ul style="list-style-type: none"> • CRP 	Turbidimetric SOP LP_C_012	
	<ul style="list-style-type: none"> • Cholesterol • Creatinine Kinase • LDH • Magnesium • Triglyceride 	Spectrophotometry-Enzymatic SOP LP_C_012	
Plasma	<ul style="list-style-type: none"> • Ammonia 	Spectrophotometry-Absorbance SOP LP_C_012	
Serum/Plasma	<ul style="list-style-type: none"> • BHCG • Cortisol • TSH • FT4 • HSTNI 	Chemiluminescent microparticulate immunoassay (CMIA) SOP LP_C_012	



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HUMAN TISSUES AND FLUIDS	Examination activities for the purposes of clinical diagnosis	In-house documented procedures and manufacturers instructions	
Urine	<ul style="list-style-type: none"> • Protein • Albumin • Amylase • Calcium • Creatinine • Phosphate • Urea • Urate • Chloride • Postassium • Sodium • Magnesium 	Abbott Alinity ci Turbidimetric SOP LP_C_012 Spectrophotometry-Absorbance SOP LP_C_012 Ion selective electrode(ISE) SOP LP_C_012 Spectrophotometry-Enzymatic SOP LP_C_012	A
Serum/Plasma	<ul style="list-style-type: none"> • Troponin I hs 	Abbott Architect Ci2000 Chemiluminescent microparticle immunoassay (CMIA)- LP_C_001/2	A
Serum	<ul style="list-style-type: none"> • Vitamin B12 • Folate • Ferritin 	LP_C_001/2	
Plasma	<ul style="list-style-type: none"> • NT-proBNP 	LP_C_001/2	



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HUMAN TISSUES AND FLUIDS cont'd	Examination activities for the purposes of clinical diagnosis cont'd	In-house documented procedures and manufacturers instructions	
CSF	<ul style="list-style-type: none"> Protein IgA IgG IgM Transferrin Complement C3 and C4 levels Rheumatoid Factor 	Abbott Architect C16000 Abbott Architect C4000 Turbidimetric LP_C_001/2	A B A
Serum/Plasma			
Serum/Plasma			
Urine	<ul style="list-style-type: none"> Albumin Protein 		
Serum/Plasma	<ul style="list-style-type: none"> Iron Beta Hydroxybutyrate Free Fatty Acid Lactate Ammonia 	Abbott Architect C16000 Spectrophotometry-Absorbance LP_C_001/2	A
Plasma			
Urine	<ul style="list-style-type: none"> Amylase Calcium Creatinine Glucose Phosphate Protein Urate Urea 	Abbott Architect C16000 Spectrophotometry-Absorbance LP_C_001/2	A
CSF	<ul style="list-style-type: none"> Glucose Total Protein Lactate 	Abbott Architect C16000 Spectrophotometry-Absorbance LP_C_001/2	A
Serum/Plasma	<ul style="list-style-type: none"> HDL cholesterol LDH Paracetamol Salicylate Creatine Kinase Ethanol Bile Acids Magnesium 	Abbott Architect C16000 Spectrophotometry-Enzymatic LP_C_001/2	A



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HUMAN TISSUES AND FLUIDS cont'd	Examination activities for the purposes of clinical diagnosis cont'd	In-house documented procedures and manufacturers instructions	
Urine	<ul style="list-style-type: none"> • Chloride • Potassium • Sodium 	Abbott Architect C16000 Ion selective electrode (ISE) LP_C_001/2	A
Serum/Plasma	Endocrine <ul style="list-style-type: none"> • Cortisol • FSH • Free T4 • Total T3 • Beta HCG • LH • Oestradiol • Progesterone • Prolactin • Sex Hormone Binding Globulin (SHBG) • Testosterone • Thyroid Peroxidase Antibodies • TSH • 25-OH Vitamin D • Methotrexate 	Abbott Architect Ci2000 Chemiluminescent microparticle immunoassay (CMIA) LP_C_001/2	A
Plasma	<ul style="list-style-type: none"> • Parathyroid Hormone (PTH) 		
Serum/Plasma	Tumour Markers <ul style="list-style-type: none"> • Alpha Feto Protein • CA125 • Carcino_Embryonic Antigen (CEA) • Prostate Specific Antigen 	Abbott Architect Ci2000 Chemiluminescent microparticle immunoassay (CMIA) LP_C_001/2	A
Serum	SARS-CoV-2 (COVID-19) IgG	Abbott SARS-CoV-2 IgG antibody kit using Abbott Architect.i2000SR LP_C_001/2	A



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HUMAN TISSUES AND FLUIDS cont'd	Examination activities for the purposes of clinical diagnosis cont'd	In-house documented procedures and manufacturers instructions	
Serum/Plasma	Therapeutic Drug Monitoring <ul style="list-style-type: none"> Amikacin Carbamazepine Digoxin Phenobarbital Tobramycin Valproate 	Abbott Architect C16000 particle-enhanced turbidimetric inhibition immunoassay (PETINIA) LP_C_001/2	A
Serum/Plasma	<ul style="list-style-type: none"> Phenytoin Theophylline 	Abbott Architect C16000 Enzyme Immunoassay LP_C_001/2	A
Serum/Plasma	<ul style="list-style-type: none"> Gentamicin Vancomycin 	Abbott Architect C16000 Abbott Architect C4000 particle-enhanced turbidimetric inhibition immunoassay (PETINIA) LP_C_001/2	A B
Serum	<ul style="list-style-type: none"> Lithium Conjugated Bilirubin 	Abbott Architect C16000 Abbott Architect using spectrophotometry LP_C_001/2	A
Urine	Drugs of Abuse <ul style="list-style-type: none"> Amphetamines Benzodiazepine Cocaine Methadone Opiates Cannabinoids Buprenorphine 	Abbott Architect C8000 Abbott Architect -Measured by enzyme linked immunoassay LP_T_009	A
Urine	Alcohol (Ethanol)	Abbott Architect C16000 alcohol dehydrogenase and kinetic LP_C_001/2	A
Serum	Proteins Monoclonal Bands	Sebia FLEX 2 using capillary electrophoresis using electrical charge for detection of abnormal bands LP_A_008-Immunofixation LP_A_006 Immunotyping	A



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HUMAN TISSUES AND FLUIDS cont'd	Examination activities for the purposes of clinical diagnosis cont'd	In-house documented procedures and manufacturers instructions	
Urine	Bence Jones' Protein	LP_A_003 Immunofixation LP_A_007	
Sweat	Chloride	Sweat chloride meter Corning 925 / Sherwood 926s LP_M_006	A
Urine	GAGs	Cellulose acetate electrophoresis LP_M_008	A
Blood	HbA1c	Arkray 8190- by HPLC LP_A_001	A +B
Urine	Toxicology <ul style="list-style-type: none"> • Opiate Confirmation • Methadone Confirmation 	Shimadzu 2010 ultra GCMS Measured by gas chromatography mass spectrometry LP_T_023 and LP_T_026	A
Plasma	<ul style="list-style-type: none"> • Ethylene Glycol • Ethanol • Methanol 	Trace GC FID Measured by gas chromatography with flame ionization detection LP SBIO T 018/19	A
Blood	<ul style="list-style-type: none"> • Tacrolimus • Ciclosporin • Sirolimus 	Waters Xevo TMS Measured by liquid chromatography with tandem mass spectrometry LP SBIO T 072/ LP_T_002	A



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HUMAN TISSUES AND FLUIDS cont'd	Examination activities for the purposes of clinical diagnosis cont'd	In-house documented procedures and manufacturers instructions	
Serum	<ul style="list-style-type: none"> Itraconazole Hydroxyitraconazole Posaconazole Voriconazole 	Waters Acquity TMS Measured by liquid chromatography with tandem mass spectrometry LP SBIO T 059 LP SBIO T 059 LP_T_016LP_T_013	A
Blood spot	<ul style="list-style-type: none"> Acyl Carnitine Phenylalanine and Tyrosine 	Measured by UPLC Mass spectrometry (UPLC/MS/MS) Waters Xevo LP_M_065LP_M_066 LP_M_065LP_M_067 LP_M_067LP_M_069 LP_M_068	A
Plasma Urine	<ul style="list-style-type: none"> Acyl Carnitine Creatine Guanidinoacetate (GAA) Hexanoylglycine Orotic Acid 		
Urine	Organic acids	Measured by GC Mass spectrometry Shimadzu GC SOP_SBIO_M_009/LP_M_020	A
CSF	Xanthochromia	Evolution 220 UV-visible spectrophotometer Spectrophotometry LP_A_004	A
Blood	Thiopurine methyltransferase	Waters HPLC with fluorometric detection LP_A_011	A



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Plasma	Enzymes Biotinidase Chitotriosidase a-Mannosidase b-Mannosidase a-Fucosidase N-Acetyl-galactosaminidase Aspartyl-glucosaminidase	Measured by fluorimetry – Perkin Elmer Victor 3 plate reader LP_M_053 LP_M_052 LP_M_055 LP_M_056 LP_M_058 LP_M_060 LP_M_059	A
Blood spot	a-Galactosidase b-Galactosidase Hexosaminidase A Acid Lipase Idurante-2-sulphatase Alpha-Glucosidase P-P Thioesterase Tripeptidyl Peptidse Leukocyte a-Iduronidase	LP_M_024 LP_M_048 LP_M_015 LP_M_048 LP_M_002 LP_M_044 LP_M_046 LP_M_047 LP_M_035	
Blood	Leukocyte b-Galactocerebrosidase Leukocyte b-Glucocerebrosidase Leukocyte Total Hex (Sandhoff)	Measured by fluorimetry Hitachi F2500 fluorimeter LP_M_034 LP_M_011 LP_M_010	A
Blood	Gal-1-P-UT screen	Measured using fluorescence Manual Tests SOP_SBIO_M_017	A



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Blood	Quantitative Gal-1-PUT	Measured by Fluorimetry following reduction of NADP to NADPH Hitachi U-2900 LP_M_073	A
Plasma Blood	Arylsuphatase A Leucocyte Arylsulphatase A	Measured by colorimetry Hitachi U-2900 Spectrophotometer LP_M_054 LP_M_018	A
Plasma Urine CSF Blood Spot	NON enzymes aminoacids aminoacids aminoacids Branch chain aminoacids - alloisoleucine, leucine, valine and isoleucine	Measured by ion exchange chromatography with spectrophotometry. Biochrom 30+ LP_M_070	A
Urine	Porphobilinogen	Measured by ion exchange chromatography with spectrophotometry Hitachi U-2900 Spectrophotometer SOP_PORPH_008	A
Serum/Plasma Faeces Urine	Bromide GAG excretion	Thermo Indiko analyser using spectrophotometry LP_M_007LP_SBIO_M_023	A



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Urine	Oligosaccharide Screen	Measured by thin-layer chromatography (TLC) LP_M_041	A
Plasma Blood Urine	<ul style="list-style-type: none"> • Porphyrin • Porphyrin • Porphyrin 	Measured by fluorimetry Hitachi F2500 Fluorescence spectrophotometer LP_M_017LP_M_022 LP_M_023	A
Serum	LDL Cholesterol eGFR Adjusted/corrected Calcium Protein/Creatinine Ratio Transferrin Saturation Free androgen index (FAI) VLDL Globulin Metabolic Bone	By calculation By Friedwald Calculation By MDRD Calculation	A and B
Urine	Albumin/Creatinine Ratio Amylase/Creatinine Ratio Creatinine clearance Calcium/Creatinine Ratio Guanidinoacetoacetate (GAA)/Creatinine ratio Porphobilinogen/Creatinine Ratio Porphoryin/Creatinine ratio Urate/Creatinine Ratio	By calculation	
END			