


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>Accredited to ISO 15189:2012</b>	<b>NHS Greater Glasgow and Clyde</b>	
	<b>Issue No: 003    Issue date: 11 February 2019</b>	
	<b>Biochemistry Department Queen Elizabeth University Hospital Laboratory Medicine and FM Building 1345 Govan Road Glasgow G51 4TF United Kingdom</b>	<b>Contact: Christine Brownlie Tel: +44 (0) 0141 354 9031 E-Mail: christine.brownlie@ggc.scot.nhs.uk</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details		Activity	Location code
<b>Address</b> Biochemistry Department Queen Elizabeth University Hospital Laboratory Medicine and FM Building 1345 Govan Road Glasgow G51 4TF	<b>Local contact</b> Christine Brownlie 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	<b>Local contact</b> Christine Brownlie 0141 354 9031	Core Chemistry HbA1c	B
Diabetic Clinic Queen Elizabeth University Hospital 1345 Govan Road Glasgow G51 4TF	<b>Local contact</b> Christine Brownlie 0141 354 9031	HbA1c	C



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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"> <li>CRP</li> </ul>	Turbidimetric LP_C_001/2	A and B
Serum/Plasma	<ul style="list-style-type: none"> <li>Albumin</li> <li>Alkaline Phosphatase</li> <li>ALT</li> <li>AST</li> <li>Bicarbonate</li> <li>Total Bilirubin</li> <li>Calcium</li> <li>Creatinine</li> <li>Gamma-GT</li> <li>Phosphate</li> <li>Total Protein</li> <li>Urate</li> <li>Urea</li> <li>Glucose</li> </ul>	Spectrophotometry-Absorbance LP_C_001/2	A and B
	<ul style="list-style-type: none"> <li>Amylase</li> <li>Urate</li> </ul>		A
Serum/Plasma	<ul style="list-style-type: none"> <li>Chloride</li> <li>Potassium</li> <li>Sodium</li> </ul>	Ion selective electrode (ISE) LP_C_001/2	A and B
Serum/Plasma	<ul style="list-style-type: none"> <li>Brain Natriuretic Peptide</li> <li>Troponin I hs</li> </ul>	Abbott Architect Ci2000 Chemiluminescent microparticle immunoassay (CMIA)- 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	
CSF	<ul style="list-style-type: none"> <li>Protein</li> <li>IgA</li> <li>IgG</li> <li>IgM</li> <li>Transferrin</li> </ul>	Turbidimetric LP_C_001/2	A
Serum/Plasma		Abbott Architect C16000 Abbott Architect C4000	B
Urine	<ul style="list-style-type: none"> <li>Albumin</li> <li>Protein</li> </ul>		A
Serum/Plasma	<ul style="list-style-type: none"> <li>Iron</li> <li>Beta Hydroxybutyrate</li> <li>Free Fatty Acid</li> <li>Lactate</li> <li>Ammonia</li> </ul>	Abbott Architect C16000 Spectrophotometry-Absorbance LP_C_001/2	A
Plasma			
Urine	<ul style="list-style-type: none"> <li>Amylase</li> <li>Calcium</li> <li>Creatinine</li> <li>Glucose</li> <li>Phosphate</li> <li>Protein</li> <li>Urate</li> <li>Urea</li> </ul>	Abbott Architect C16000 Spectrophotometry-Absorbance LP_C_001/2	A
CSF	<ul style="list-style-type: none"> <li>Glucose</li> <li>Total Protein</li> <li>Lactate</li> </ul>	Abbott Architect C16000 Spectrophotometry-Absorbance LP_C_001/2	A
Serum/Plasma	<ul style="list-style-type: none"> <li>HDL cholesterol</li> <li>LDH</li> <li>Paracetamol</li> <li>Salicylate</li> <li>Creatine Kinase</li> <li>Ethanol</li> <li>Bile Acids</li> <li>Magnesium</li> </ul>	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"> <li>Chloride</li> <li>Potassium</li> <li>Sodium</li> </ul>	Abbott Architect C16000 Ion selective electrode (ISE) LP_C_001/2	A
Serum/Plasma	<b>Endocrine</b> <ul style="list-style-type: none"> <li>Cortisol</li> <li>FSH</li> <li>Free T4</li> <li>Total T3</li> <li>Beta HCG</li> <li>LH</li> <li>Oestradiol</li> <li>Progesterone</li> <li>Prolactin</li> <li>Sex Hormone Binding Globulin (SHBG)</li> <li>Testosterone</li> <li>Thyroid Peroxidase Antibodies</li> <li>TSH</li> <li>25-OH Vitamin D</li> <li>Methotrexate</li> </ul>	Abbott Architect Ci2000 Chemiluminescent microparticle immunoassay (CMIA) LP_C_001/2	A
Plasma	<ul style="list-style-type: none"> <li>Parathyroid Hormone (PTH)</li> </ul>		
Serum/Plasma	Tumour Markers <ul style="list-style-type: none"> <li>Alpha Feto Protein</li> <li>CA125</li> <li>Carcino_Embryonic Antigen (CEA)</li> <li>Prostate Specific Antigen</li> </ul>	Abbott Architect Ci2000 Chemiluminescent microparticle immunoassay (CMIA) LP_C_001/2	A
Serum/Plasma	Therapeutic Drug Monitoring <ul style="list-style-type: none"> <li>Amikacin</li> <li>Carbamazepine</li> <li>Digoxin</li> <li>Phenobarbital</li> <li>Tobramycin</li> <li>Valproate</li> </ul>	Abbott Architect C16000 particle-enhanced turbidimetric inhibition immunoassay (PETINIA) 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	<ul style="list-style-type: none"> <li>Phenytoin</li> <li>Theophylline</li> </ul>	Abbott Architect C16000 Enzyme Immunoassay LP_C_001/2	A B
Serum	<ul style="list-style-type: none"> <li>Gentamicin</li> <li>Vancomycin</li> </ul>	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"> <li>Lithium</li> <li>Conjugated Bilirubin</li> </ul>	Abbott Architect C16000 Abbott Architect using spectrophotometry LP_C_001/2	A
Urine	Drugs of Abuse <ul style="list-style-type: none"> <li>Amphetamines</li> <li>Barbiturates</li> <li>Benzodiazepine</li> <li>Cocaine</li> <li>Methadone</li> <li>Opiates</li> <li>Cannabinoids</li> <li>Buprenorphine</li> </ul>	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
Urine	Bence Jones' Protein	LP_A_003 Immunfixation LP_A_007	



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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/serum	Osmolality	Vitech Osmometer 3320 using freezing point depression LP_C_006	A
Sweat	Chloride	Sweat chloride meter Corning 925 / Sherwood 926s LP_M_006	A
Urine	GAGs	Cellulose acetate electrophoresis LP_M_008	A
Plasma	HbA1c	Menarini 8180- by HPLC LP_A_001	A +B +C
Urine	Toxicology <ul style="list-style-type: none"> <li>Opiate Confirmation</li> <li>Methadone Confirmation</li> </ul>	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"> <li>Ethylene Glycol</li> <li>Ethanol</li> <li>Methanol</li> </ul>	Trace GC FID Measured by gas chromatography with flame ionization detection LP SBIO T 018/19	A
Blood	<ul style="list-style-type: none"> <li>Tacrolimus</li> <li>Ciclosporin</li> <li>Sirolimus</li> </ul>	Waters Xevo TMS Measured by liquid chromatography with tandem mass spectrometry LP SBIO T 072/ LP_T_002	A
Serum	<ul style="list-style-type: none"> <li>Itraconazole</li> <li>Hydroxyitraconazole</li> <li>Posaconazole</li> <li>Voriconazole</li> </ul>	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



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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	
Blood spot	<ul style="list-style-type: none"> <li>• Acyl Carnitine</li> <li>• Phenylalanine and Tyrosine</li> </ul>	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	<ul style="list-style-type: none"> <li>• Acyl Carnitine</li> <li>• Creatine</li> <li>• Guanidinoacetate (GAA)</li> <li>• Hexanoylglycine</li> <li>• Orotic Acid</li> </ul>		
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 - allo-isoleaucine, 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	Kone analyser using spectrophotometry  LP_M_007LP_SBIO_M_023	A
Plasma	Chromium clearance	Measured using gamma counter to determine clearance of radioisotope 51 Chromium (SOP_RIA_002)	



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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	Oligosaccharide Screen	Measured by thin-layer chromatography (TLC) LP_M_041	A
Plasma Blood Urine	<ul style="list-style-type: none"> <li>• Porphyrin</li> <li>• Porphyrin</li> <li>• Porphyrin</li> </ul>	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			