## **Schedule of Accreditation**

issued by

## **United Kingdom Accreditation Service**

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



9572

Accredited to ISO 15189:2012

**G4 0SF** 

## **NHS Greater Glasgow and Clyde**

Issue No: 005 Issue date: 23 December 2021

Department of Biochemistry

Macewan Building

Contact: John Hepburn

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Glasgow Royal Infirmary E-Mail: John.Hepburn@ggc.scot.nhs.uk

Castle Street Website: http://www.nhsggc.org.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 Department of Biochemistry Macewan Building Glasgow Royal Infirmary Castle Street Glasgow G4 0SF	<b>Local contact</b> As above	Core Chemistry Immunoassay Endocrinology Electrophoresis Gastroenterology Vitamins Trace Elements	A
Biochemistry Gartnavel General Hospital 1053 Great Western Road Glasgow G12 0YN	As above	Core Chemistry Immunoassay	В
Biochemistry Stobhill ACH 133 Balornock Road Glasgow G21 3UW	As above	Core Chemistry	С

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#### Site activities performed away from the locations listed above:

Location details		Activity	Location code
Diabetic Clinic Gartnavel General Hospital 1053 Great Western Road Glasgow G12 0YN	As above	HbA1C	D
Clinic D Stobhill ACH 133 Balornock Road Glasgow G21 3UW	As above	HbA1C	Е

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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	Biochemistry Examination activities for the purposes of clinical diagnosis	In-house documented procedures and manufacturer's instructions	
	Core Chemistry	Abbott Architect Chemistry SOP CP 129 c8000 c8000	B C
Serum	Alanine transaminase (ALT) Alkaline phosphatase (ALP) Amylase Aspartate transaminase (AST) Bicarbonate Bilirubin (Total) Calcium C-reactive Protein	Photometric end/detection point	В, С
	Creatine Kinase Electrolytes		B B, C
	Magnesium Cholesterol Immunoglobulins (IgA, IgG,IgM) Phenylotin		В
	Phosphate Salicylate Theophylline		B,C
	Angiotensin-converting		В
	enzyme Transferrin Triglycerides Iron		В
Serum/plasma	HDL HIL Index Lipase		B B, C B
Serum/plasma/CSF	Glucose		B, C

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	Biochemistry Examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures and manufacturer's instructions	
	Core Chemistry (cont'd)	Abbott Architect Chemistry SOP CP 129	
Serum/urine	Enzymatic creatinine		B, C
Serum	Urea		B, C
Serum	Lactate DeHydrogenase Urea		B B, C
Serum	Protein		B, C
CSF	Protein		В
Serum	Albumin		B, C
Serum	Vancomycin		С

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HUMAN TISSUES AND FLUIDS (cont'd)	Biochemistry Examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures and manufacturer's instructions	
Serum/Plasma	Core Chemistry (cont'd)  Albumin ALP ALT Amylase AST Total Bilirubin Calcium Creatinine Enzymatic Ethanol Glucose Gamma-Glutamyl Transferase Lactate Paracetamol Phosphate Salicylate	Abbott Alinity ci SOP INST 0570 Spectrophotometry-Absorbance	A
	<ul><li>Urate</li><li>Urea</li><li>Chloride</li><li>Potassium</li><li>Sodium</li><li>CRP</li></ul>	Ion selective electrode (ISE)  Turbidimetric	
	<ul> <li>Cholesterol</li> <li>Creatine Kinase</li> <li>Direct Bilirubin</li> <li>LDH</li> <li>Magnesium</li> <li>Triglyceride</li> </ul>	Spectrophotometry-Enzymatic	

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HUMAN TISSUES AND FLUIDS (cont'd)	Biochemistry Examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures and manufacturer's instructions  Abbott Alinity ci	A
Serum/Plasma	<ul><li>BHCG</li><li>HSTNI</li><li>Gentamycin</li><li>Vancomicin</li></ul>	SOP INST 0570 Chemiluminescent microparticulate immunoassay (CMIA)	
		Abbott Architect Immunoanalyser ISR 2000	В
Serum	Alpha Fetoprotein Cancer Antigen 125 (Abbott) CarcinoEmbryonic Antigen Human Chorionic Gonadotropin Prostate Specific Antigen Thyroid Stimulating Hormone (TSH) FreeT4	SOP CP 129	В
	Special Chemistry		
Blood	HbA1C	Menarini HA 8180 Reverse Phase Cation exchange SOP CP 201	D, E
Serum/urine	Osmolality	Vitech advanced micro-osmometer Freezing point Depression SOP CP 091	A, B, C
		Beckman Access- CMIA	А
Serum	Anti-Mullerian hormone	SOP ENDO 101	
Plasma	Erythropoietin	SOP ENDO 120	
		Grifols's Triturus Analyser -ELISA	А
Faeces	Calprotectin	SOP GP 015	
Serum	Thyroid receptor AB (Trab)	SOP ENDO 016	

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Materials/Products tested	Type of test/Properties	Standard specifications/	Location
	measured/Range of measurement	Equipment/Techniques used	Code
HUMAN TISSUES AND FLUIDS (cont'd)	Biochemistry Examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures and manufacturer's instructions	
	Special Chemistry (cont'd)		
Plasma	Adrenocorticotropic hormone C-peptide Gastrin	Siemens Immulite 2000XPi-CMIA SOP ENDO 046 SOP ENDO 023 SOP ENDO 086	А
Serum	Growth hormone	SOP ENDO 021	
Serum	Insulin like growth factor 1	IDS iSYS Automated Analyser CMIA SOP ENDO 093	A
		XEVO TQ-S liquid chromatography tandem mass spectrometer	А
Blood spot	17-Hydroxyprogesterone	SOP ENDO 098	
serum	Androgen Profile     Testosterone     Androstenedione     17α-hydroxyprogesterone	SOP ENDO 089	
Urine	Cortisol	SOP ENDO 094	
Serum	Vitamin D (D2 D3 Total)	SOP ENDO 070	
Plasma/serum/urine	Calculated tests	By Calculation By MDRD Calculation By Friedwald Calculation By Calculation	A, B, C A, B, C A A, B, C

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	Biochemistry Examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures and manufacturer's instructions	
	Special Chemistry (cont'd)	Thermo TSQ 8000 Analyser GC Mass Spectrometry	А
Urine	Steroid profile:  Androsterone Aetiocholanolone dehydroepiandrosterone (DHA),11- oxaetiocholanolone, 17-hydroxypregnanolone, 11β-hydroxyandrosterone, 11β- hydroxyaetiocholanolone, 16α-hydroxy-DHA, Pregnanediol, Pregnanetriol, Androstenetriol, Tetrahydrodeoxycortisol, tetrahydro- 11deoxycorticosterone, 11-oxopregnanetriol, Pregnenetriol, tetrahydrocortisone, tetrahydrocorticosterone, tetrahydrocorticosterone(THB) allo-THB, tetrahydrocortisol (THF), allo-THF, α-cortolone, β-cortolone	SOP STER 001	

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	Biochemistry Examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures and manufacturer's instructions	
	<u>Proteins</u>	Sebia Hydrasys 2-electrophoresis	А
Serum	ALP Isoenzymes	SOP ENDO 018	
	Cryoglobulin	SOP MS 005	
Plasma	Cryofibrinogen	SOP MS 005	
Serum/urine	Monoclonal bands	Immunofixation SOP MS 004	
Urine	Protein bands	Sebia Hydrasys 2 EP Electrophoresis SOP MS 029	
Serum	Protein Bands	SEBIA Capillarys 2-Electrphoresis SOP MS 027	
	<u>Vitamins</u>	Waters HPLC System HPLC; photometric detection	А
Plasma/serum	A E	SOP VIT 001	
Plasma	Beta-Carotene	SOP VIT 001	
Whole blood	B1 Thiamine	SOP VIT 002	
Packed red cells	B2 B6	SOP VIT 004	

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HUMAN TISSUES AND FLUIDS (cont'd)	Biochemistry Examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures and manufacturer's instructions	
	Trace Elements	Agilent 7700 ICP-MS	А
Urine	Cadmium Arsenic Chromium	SOP TE 154	
	Cobalt Copper Iron Magnesium	SOP TE164	
	Nickel Zinc	SOP TE 154 SOP TE 164	
Blood	Chromium Cobalt	SOP TE 153	
	Lead Manganese Mercury	SOP TE 163	
		Agilent 7900 ICP-MS	А
Hair	Arsenic	SOP TE 165	
Urine	Mercury Mercury		
Liver	Iron Copper		
Red cells	Selenium	SOP TE 174	
Plasma	Aluminium Copper Selenium Zinc	SOP TE 035 SOP TE 145 SOP TE 145 SOP TE 145	
	END	1	

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