


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS MEDICAL 9572 Accredited to ISO 15189:2012	NHS Greater Glasgow and Clyde Issue No: 004 Issue date: 04 January 2021	
	Department of Biochemistry McEwan Building Glasgow Royal Infirmary Castle Street Glasgow G4 0SF	Contact: John Hepburn Tel: +44 (0) 141 211 5534 E-Mail: John.Hepburn@ggc.scot.nhs.uk 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 McEwan Building Glasgow royal Infirmary Castle Street Glasgow G4 0SF	Local contact 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	B
Biochemistry Stobhill ACH 133 Balornock Road Glasgow G21 3UW	As above	Core Chemistry	C



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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	E



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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	<u>Biochemistry Examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures and manufacturer's instructions	
Serum	<u>Core Chemistry</u> Alanine transaminase (ALT) Alkaline phosphatase (ALP) Amylase Aspartate transaminase (AST) Bicarbonate Bilirubin (Total) Calcium C-reactive Protein Creatine Kinase Electrolytes <ul style="list-style-type: none"> • Sodium • Potassium • Chloride Gamma-Glutamyl Transferase Magnesium Cholesterol Immunoglobulins (IgA, IgG, IgM) Bilirubin Conjugated Digoxin Haptoglobin Lactate Paracetamol Phenobarbitone Phenytoin Phosphate Salicylate Theophylline Urate Angiotensin-converting enzyme Transferrin Triglycerides Iron	Abbott Architect Chemistry SOP CP 129 c16000 c8000 c8000 Photometric end/detection point	A B C A, B, C A, B A, B, C A, B A A, B, C A B A, B



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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)	<u>Biochemistry Examination activities for the purposes of clinical diagnosis.</u> (cont'd)	In-house documented procedures and manufacturer's instructions	
	<u>Core Chemistry</u> (cont'd)	Abbott Architect Chemistry SOP CP 129	
Plasma	Lipoprotein (a)	Photometric end/detection point	A
Serum/plasma	Ethanol HDL HIL Index Lipase		A A, B A, B, C B
Serum/plasma/CSF	Glucose		A, B, C
Serum/urine	Enzymatic creatinine		A, B, C
Serum	Urea		A, B, C
Serum	Lactate DeHydrogenase Urea		A, B A, B, C
Serum	Protein		A, B, C
CSF	Protein		A, B
Urine	Oxalate		A
Serum	Albumin		A, B, C
Serum	Alpha 1-antitrypsin Caeruloplasmin		A
Plasma	Apolipoprotein A1 Apolipoprotein B		
Serum	Carbamazepine		A
Serum	Lithium		A
Serum	Gentamicin Tobramycin		A A



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Biochemistry Examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures and manufacturer's instructions	
Serum	<u>Core Chemistry</u> (cont'd) Valproate Vancomycin	Abbott Architect Chemistry SOP CP 129	A A, C
Serum/Plasma	<ul style="list-style-type: none"> • Albumin • ALP • ALT • Amylase • AST • Total Bilirubin • Calcium • Creatinine Enzymatic • Ethanol • Glucose • Gamma-Glutamyl Transferase • Lactate • Paracetamol • Phosphate • Salicylate • Urate • Urea 	Abbott Alinity ci SOP INST 0570 Spectrophotometry-Absorbance	A
	<ul style="list-style-type: none"> • Chloride • Potassium • Sodium 	Ion selective electrode (ISE)	
	<ul style="list-style-type: none"> • CRP 	Turbidimetric	
	<ul style="list-style-type: none"> • Cholesterol • Creatinine Kinase • Direct Bilirubin • LDH • Magnesium • Triglyceride 	Spectrophotometry-Enzymatic	



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Biochemistry Examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures and manufacturer's instructions	
Serum/Plasma	<ul style="list-style-type: none"> • BHCG • HSTNI • Gentamycin • Vancomycin 	Abbott Alinity ci SOP INST 0570	A
Serum	Alpha Fetoprotein	Abbott Architect Immunoanalyser ISR 2000 SOP CP 129	A, B
	Cancer Antigen 125 (Abbott) CarcinoEmbryonic Antigen Human Chorionic Gonadotropin Prostate Specific Antigen Thyroid Stimulating Hormone (TSH) FreeT4		A, B
	Cortisol Dehydroepiandrosterone sulfate (DHAS) Ferritin Folates FSH Methotrexate Progesterone Prolactin Sex Hormone Binding Globulin Testosterone Triiodothyronine (total) (T3) TPO AB		A
Plasma	Vitamin B12 Vitamin D Brain natriuretic Peptide Insulin Parathyroid Hormone Troponin I hs		A



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Biochemistry Examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures and manufacturer's instructions	
Serum/plasma	<u>Core Chemistry</u> (cont'd) Luteinising Hormone Oestradiol	ISR 2000 Abbott Architect Immunoanalyser SOP CP 129	A
Serum	Macroprolactin <u>Special Chemistry</u>	PEG precipitation SOP ENDO045	A
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
Serum	Anti-Mullerian hormone	Beckman Access- CMIA SOP ENDO 101	A
Plasma	Erythropoietin	SOP ENDO 120	
Faeces	Calprotectin	Grifols's Triturus Analyser -ELISA SOP GP 015	A
Serum	Thyroid receptor AB (Trab)	SOP ENDO 016	



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Biochemistry Examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures and manufacturer's instructions	
Plasma/serum	<u>Special Chemistry</u> (cont'd) 1,25-dihydroxyvitamin D (calcitriol)	Berthold Gamma Counter-RIA SOP ENDO 017	A
Plasma	Calcitonin	SOP ENDO 012	
Plasma	Adrenocorticotrophic hormone C-peptide Gastrin	Siemens Immulite 2000XPi-CMIA SOP ENDO 046 SOP ENDO 023 SOP ENDO 086	A
Serum	Growth hormone	SOP ENDO 021	
	Thyroglobulin	SOP ENDO 031	
	Thyroglobulin Antibody	SOP ENDO 030	
Serum	Insulin like growth factor 1	IDS iSYS Automated Analyser CMIA SOP ENDO 093	A
Blood spot	17-Hydroxyprogesterone	XEVO TQ-S liquid chromatography tandem mass spectrometer	A
serum	Androgen Profile • Testosterone • Androstenedione • 17 α -hydroxyprogesterone	SOP ENDO 089	
Urine	Cortisol	SOP ENDO 094	
Serum	Vitamin D (D2 D3 Total)	SOP ENDO 070	
Plasma/serum/urine	Calculated tests • AKI • eGFR • LDL Cholesterol • Adjusted calcium	By Calculation By MDRD Calculation By Friedwald Calculation By Calculation	A, B, C A, B, C A A, B, C



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HUMAN TISSUES AND FLUIDS (cont'd) Urine	<u>Biochemistry Examination activities for the purposes of clinical diagnosis</u> (cont'd) <u>Special Chemistry</u> (cont'd) Steroid profile: <ul style="list-style-type: none"> • 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, tetrahydro-11-dehydrocorticosterone, tetrahydrocorticosterone(T HB) • allo-THB, • tetrahydrocortisol (THF), • allo-THF, • α-cortolone, • β-cortol, • β-cortolone 	In-house documented procedures and manufacturer's instructions Thermo TSQ 8000 Analyser GC Mass Spectrometry SOP STER 001	A



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Biochemistry Examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures and manufacturer's instructions	
Serum	<u>Proteins</u> ALP Isoenzymes	Sebia Hydrasys 2-electrophoresis SOP ENDO 018	A
Plasma	Cryoglobulin	SOP MS 005	
Serum/urine	Cryofibrinogen	SOP MS 005	
Urine	Monoclonal bands	Immunofixation SOP MS 004	
Serum	Protein bands	Sebia Hydrasys 2 EP Electrophoresis SOP MS 029	
	Protein Bands	SEBIA Capillarys 2-Electrophoresis SOP MS 027	
Plasma/serum	<u>Vitamins</u> A E K1/ PhylQ	Waters HPLC System HPLC; photometric detection SOP VIT 001	A
Plasma	Beta-Carotene	SOP VIT 020	
Whole blood	B1 Thiamine	SOP VIT 001	
Packed red cells	B2 B6	SOP VIT 002 SOP VIT 004	



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	<u>Trace Elements</u>	Agilent 7700 ICP-MS	A
Urine	Cadmium Arsenic Chromium Cobalt Copper Iron Magnesium Nickel Zinc	SOP TE 154 SOP TE164	
Blood	Chromium Cobalt Lead Manganese Mercury	SOP TE 153 SOP TE 163	
Hair	Arsenic Mercury	Agilent 7900 ICP-MS SOP TE 165	A
Urine	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			