


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL 8866</p> <p>Accredited to ISO 15189:2012</p>	<h3>Blackpool Teaching Hospitals NHS Foundation Trust</h3> <p>Issue No: 011 Issue date: 13 November 2023</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS	Biochemical examination activities for the purposes of clinical diagnosis (cont'd) Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum and plasma unless otherwise stated		using Beckman Coulter AU5812 by the following measurement principles:
Serum	ACE (Angiotensin converting enzyme)	by photometry SOP C.AU 042
	Albumin	by BCG SOP C.AU 002
Urine	Albumin (Microalbumin)	By Immunoturbidimetric By SOP C.AU 049
	Alcohol (Ethanol)	by EMIT 11 plus SOP C.AU 015
	Alkaline phosphatase	by IFCC AMP Buffer SOP C.AU 003
	ALT	by Kinetic UV test IFCC SOP C.AU 004
Plasma (EDTA plasma)	Ammonia	by direct enzymatic method SOP C.AU 043
Urine also	Amylase	by Kinetic colour CNPG3 SOP C.AU 005 (serum and plasma)/ C.AU50 (urine)
	AST	by ModifiedKinetic UV IFCC SOP C.AU 006
	Bicarbonate	by Enzymatic PEPC/MD SOP C.AU 008
	Bile acids	by enzyme colourimetric cycling SOP C.AU 008



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Serum and plasma unless otherwise stated	Biochemical examination activities for the purposes of clinical diagnosis (cont'd) Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified below:
Urine also	Bilirubin (Direct)	using Beckman Coulter AU5812 by the following measurement principles: By Photometric colour DPD SOP C.AU 014
Urine also	Bilirubin (Total)	by Diazo colourimetric DPD SOP C.AU 032
Urine also	Calcium	by Colourimetric Arsenazo 3 SOP C.AU 009 (serum and plasma)/ SOP C.AU 051 (urine)
Faeces	Calprotectin	Enzyme linked immune-sorbant assay SOP C.STS 019 – Calprotectin extraction & analysis and SOP C.AU 079 Calprotectin analysis
Urine also	Chloride	by Indirect ISE SOP C.AU 075
	Cholesterol	by Enzymatic CHE.CHO.Peroxidase SOP C.AU 011
	Cholesterol (HDL)	by Enzymatic CHE.CHO.Peroxidase SOP C.AU 027
	Total CK (Creatine Kinase)	by Modified IFCC SOP C.AU 033



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Urine also	C-Reactive Protein	By Immune turbidimetric latex SOP C.AU 013
Urine also	Creatinine	by Kinetic UV Jaffe SOP C.AU 012 (serum/plasma)/ SOP C.AU52 (Urine)
	Gamma GT	by Modified IFCC SOP C.AU 019
Urine also	Glucose	by Enzymatic UV hexokinase SOP C.AU 019 (serum and plasma), C.AU 062 (CSF), C.AU 053 (Urine)
	IgA	by immunoturbidimetry SOP C.AU 020
	IgG	by immunoturbidimetry SOP C.AU 021



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Serum and plasma unless otherwise stated	Biochemical examination activities for the purposes of clinical diagnosis (cont'd) Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified below: using Beckman Coulter AU5812 by the following measurement principles
Urine also	IgM	by immune-turbidimetry SOP C.AU 022
	Iron	by Photometric colorimetric TPTZ SOP C.AU 016
	Iron Binding Capacity (Unsaturated)	By Photometric colour Nitroso PSAP SOP C.AU 039
CSF only	Lactate	by Enzymatic colour LOD/POD SOP C.AU 061
	Lactate dehydrogenase (LDH)	by Photometric Kinetic UV SOP C.AU 025
Urine also	Magnesium	by Photometric Xylidyl Blue SOP C.AU 054 (Urine), C.AU 028 (serum and plasma)
	Paracetamol	By Enzymatic assay SOP C.AU 029 paracetamol



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Serum and plasma unless otherwise stated	Biochemical examination activities for the purposes of clinical diagnosis (cont'd) Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified below:
Urine also	Inorganic phosphate	using Beckman Coulter AU5812 by the following measurement principles: by Photometric UV Molybdate enzymatic CHE.CHO.Peroxidase SOP C.AU 023 (serum and plasma) C.AU 056 (urine)
Urine also	Potassium	by Indirect ISE SOP C.AU 075
Urine and CSF only	Protein	by Photometric colour Pyrogallol Red SOP C.AU 057 (urine) SOP C.AU 060 (CSF)
	Salicylate	by EMIT SOP C.AU 031
Urine also	Sodium	By Indirect ISE SOP C.AU 075
	Total Protein	by Photometric colour Biuret SOP C.AU 036



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Serum and plasma unless otherwise stated	Biochemical examination activities for the purposes of clinical diagnosis (cont'd) Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified below: using Beckman Coulter AU5812 by the following measurement principles
Urine also	Triglyceride	by enzymatic colorimetric Hydrolysis-Lipases SOP C.AU 037
Urine only	Urea	By Kinetic UV urease SOP C.AU 040 (serum and plasma) C.AU 059 (urine)
Urine also	Uric Acid	by Enzymatic colour uricase SOP C.AU 038 (serum and plasma) C.AU 058 (urine)
Serum and plasma unless otherwise stated	Biochemical examination activities for the purposes of clinical diagnosis (cont'd) Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified below:
	<u>Therapeutic drug monitoring</u>	using Beckman Coulter AU5812 by the following measurement principles:
	Carbamazepine	by EMIT 2000 SOP C.AU 010
	Gentamycin	by EMIT 2000 SOP C.AU 017
Serum only	Lithium	by Spectrophotometry SOP C.AU 026
	Phenytoin	by EMIT 2000 SOP C.AU 030
	Theophylline	by EMIT 2000 SOP C.AU 034
	Vancomycin	by EMIT 2000 SOP C.AU 041



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Serum and plasma unless otherwise stated	<p>Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of:</p> <p>Calculated tests:</p> <p>Transferrin saturation</p> <p>Adjusted calcium</p> <p>AKI</p> <p>Cholestrol/HDL Ratio</p> <p>LDL Cholesterol</p> <p>Non-HDL Cholestrol</p> <p>Creatinine Clearance (CKD-EPI)</p> <p>Albumin Excretion Rate</p> <p>Microalbumin/Creatinine Ratio</p> <p>Calculated Globulins</p> <p>Calculated Total Iron Binding Capacity</p> <p>FIB4</p> <p>Free Androgen Index</p> <p>Estimated GFR</p>	<p>In house documented procedures using calculation methods based on results from Beckman AU5812 unless otherwise stated SOP GCHEM 400</p> <p>C.AU 036, C.AU 002</p> <p>Siemens Advia Centaur XPT SOP C.CENT 022(Testosterone) & C.CENT 021 (SHBG)</p>
Urine	Urine Calcium/Creatinine Ratio	
Urine	Urine Protein/Creatinine Ratio	
Urine only	Daily/24hr Protein Excretion	
	Calculated Free Testosterone	Siemens Advia Centaur XPT SOP C.CENT 104, C.CENT 022 (Testosterone), C.AU 002 (Albumin)
	Macroprolactin	Siemens Advia Centaur XPT SOP C.CENT 114



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Serum and plasma unless otherwise stated	Biochemical examination activities for the purposes of clinical diagnosis. Quantitation of:	In house documented procedures using calculation methods based on results from Beckman AU5812 unless otherwise stated SOP GCHEM 400
Serum or plasma	Kappa/Lambda Free Light Chain Ratio	C.STS 004 using Siemens Atellica Neph 630
Urine	24h Urine volume measurement	By Weight
Urine	24 hr Urine Sodium	
Urine	24 hr Urine Potassium	
Urine	24 hr Urine Creatinine	
Urine	24 hr Urine Calcium	
Urine	24 hr Urine Chloride	
Urine	24 hr Urine Urea	
Urine	24 hr Urine Amylase	
Urine	24 hr Urine Glucose	
Urine	24 hr Urine Inorganic Phosphate	
Urine	24 hr Urine Protein	
Urine	24 hr Urine Uric Acid	
Urine	24 hr Urine Magnesium	
Urine	Urine Calcium/Creatine ratio	



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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 below:
	Immunoassay	using Siemens Centaur XPT by fluorescence unless otherwise stated
Serum and plasma unless otherwise stated	Alpha-fetoprotein	SOP C.CENT 001
Plasma (EDTA)	CA 125 CA 19-9 CEA Cortisol	SOP C.CENT 004 SOP C.CENT 005 SOP C.CENT 006 SOP C.CENT 007
Whole blood (EDTA) only	Cyclosporin Digoxin Ferritin Folate FSH T3 (free) T4 (free) B12	SOP C.CENT 008 SOP C.CENT 009 SOP C.CENT 010 SOP C.CENT 020 SOP C.CENT 013 SOP C.CENT 011 SOP C.CENT 012 SOP C.CENT 025



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HUMAN BODY FLUIDS	Biochemical examination activities for the purposes of clinical diagnosis cont. Quantitation of:	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum and plasma unless otherwise stated	<u>Immunoassay</u>	using Siemens Centaur XPT by fluorescence unless otherwise stated
	HCG	SOP C.CENT 001
	LH	SOP C.CENT 014
	Macroprolactin	SOP C.CENT 114
	Oestradiol	SOP C.CENT 015
	Progesterone	SOP C.CENT 016
	NT-pro-BNP	SOP C.CENT 029 by 2 site sandwich immunoassay
	Procalcitonin	SOP C.CENT 028 by 2 site sandwich immunoassay
	Prolactin	SOP C.CENT 017 by 2 site sandwich immunoassay
	PSA (total)	SOP C.CENT 018
	PTH	SOP C.CENT 019
	Testosterone	SOP C.CENT 022
	Troponin I	SOP C.CENT 023 by 3 site sandwich immunoassay
	TSH	SOP C.CENT 024
	Vitamin D (total)	SOP C.CENT 026
	SHBG	SOP C.CENT 021 by fluorescence



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HUMAN BODY FLUIDS	<u>General Biochemistry</u> Biochemical examination activities for the purposes of clinical diagnosis. Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified below:
Whole blood	Blood Gas Analysis: pH pCO ₂ pO ₂ Lactate Carboxyhaemoglobin Methaemoglobin Standard Bicarbonate (calculated) Base excess (calculated) H ⁺ (calculated)	SOP C.CENT 200 using Werfen GEM 5000
Whole blood	HbA1c	SOP C.STS 065 using Tosoh G11
Serum or plasma	Kappa free light chains Lambda free light chains	SOP C.STS 004 using Siemens Atellica Neph 630
Serum & urine	Osmolality	SOP C.CENT 115 using Advanced Instruments OsmoPro by freezing point depression
Serum or Urine (Unless otherwise stated)	Biochemical examination activities for the purposes of clinical diagnosis. Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified below:
	Monoclonal component	Using Sebia Capillary 2 C.STS 041
	Protein electrophoresis	By Capillary Zone Electrophoresis
	Paraproteins; Type A Type G Type M Type Kappa Type Lambda	By Immunosubtraction



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HUMAN BODY FLUIDS	<u>General Biochemistry</u>	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum or Urine (Unless otherwise stated)	Biochemical examination activities for the purposes of clinical diagnosis. Quantification of:	Using Sebia Hydrasys 2 SOP C.STS 041
Serum	Detection of normal and abnormal protein electrophoretic patterns	
Urine only	Detection of Bence Jones protein	by Gel immunofixation
	Paraproteins; Type D Type E	
Serum only	Detection of kappa & lambda light chains	by Gel immunofixation
CSF unless otherwise stated	Net Bilirubin Absorbance	Using North Star Uvikon XS analyser by spectrophotometry C.STS 061
	Net Oxyhaemoglobin Absorbance	
	Xanthochromia	
Urine	Drugs of abuse screening for: Amphetamines, barbiturates, benzodiazepines, cocaine, methadone, opiates, THC, tricyclic antidepressants	SOP C.STS 056 using Alere Triage UTOX
END		