Schedule of Accreditation

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Lancashire Teaching Hospitals NHS Foundation Trust

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY SAMPLES	Biochemical examination activities for the purposes of clinical diagnosis	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum and plasma unless otherwise stated	Quantification of:	using Beckman Coulter AU5812 by the following measurement principles:
	ACE (Angiotensin converting enzyme)	by photometry SOP C.AU 042
Serum	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
Serum	Alpha -1-antitripsin	by Turbidimetry SOP C.AU 046
	Alanine amino transferase (ALT)	by Kinetic UV test IFCC SOP C.AU 004
Plasma (EDTA plasma)	Ammonia	by direct enzymatic method SOP C.AU 043

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HUMAN BODY SAMPLES	Biochemical examination activities for the purposes of clinical diagnosis	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum and plasma unless otherwise stated	Quantification of:	using Beckman Coulter AU5812 by the following measurement principles:
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
Urine also	Bilirubin (Direct)	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY SAMPLES	Biochemical examination activities for the purposes of clinical diagnosis (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum and plasma unless otherwise stated	Quantification of:	using Beckman Coulter AU5812 by the following measurement principles:
	Cholesterol (HDL)	by Enzymatic CHE.CHO.Peroxidase SOP C.AU 027
Urine also	Creatinine	by Enzymatic SOP C.AU 012 (serum) SOP C.AU 052 (urine)
	Total CK (Creatine Kinase)	by Modified IFCC SOP C.AU 033
Urine also	C-Reactive Protein	By Immune turbidimetric latex SOP C.AU 013
	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
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 Nitorso PSAP SOP C.AU 039

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY SAMPLES	Biochemical examination activities for the purposes of clinical diagnosis (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum and plasma unless otherwise stated	Quantification of:	using Beckman Coulter AU5812 by the following measurement principles:
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
Urine also	Inorganic phosphate	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 Cambridge Life Sciences method SOP C.AU 031
Urine also	Sodium	By Indirect ISE SOP C.AU 075
	Total Protein	by Photometric colour Biuret SOP C.AU 036

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY SAMPLES	Biochemical examination activities for the purposes of clinical diagnosis (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum and plasma unless otherwise stated	Quantification of:	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)
	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	Therapeutic drug monitoring	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
	Theophyline	by EMIT 2000 SOP C.AU 034
	Vancomycin	by EMIT 2000 SOP C.AU 041

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY SAMPLES	Biochemical examination activities for the purposes of clinical diagnosis.	In house documented procedures
	Calculated tests:	Using calculation methods based on results from Beckman AU5812 unless otherwise stated SOP GCHEM 400
	Transferrin saturation	
	Adjusted calcium	
	Cholesterol/HDL Ratio	
	LDL Cholesterol	
	Non-HDL Cholesterol	
	Albumin Excretion Rate	
	Calculated Globulins	C.AU 036, C.AU 002
	Calculated Total Iron Binding Capacity	
	Creatinine Clearance (CKD-EPI)	
	Microalbumin/Creatinine Ratio	
	FIB4	
	Free Androgen Index	Siemens Advia Centaur XPT SOP C.CENT 022(Testosterone) & C.CENT 021 (SHBG)
	Enhanced Liver Fibrosis (ELF) score derived from Type III procollagen peptide (PIIINP), tissue inhibitor of matrix metalloproteinase 1 (TIMP-1) and hyaluronic acid (HA)	C.CENT 031
	Estimated GFR	
Urine	Calcium/Creatinine Ratio	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY SAMPLES	Biochemical examination activities for the purposes of clinical diagnosis.	In house documented procedures
	Calculated tests (cont'd):	Using calculation methods based on results from Beckman AU5812 unless otherwise stated SOP GCHEM 400
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
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 Calcium	
Urine	24 hr Urine Chloride	
Urine	24hr Urine Creatinine	
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	

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HUMAN BODY SAMPLES	Biochemical examination activities for the purposes of clinical diagnosis.:	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum and plasma unless otherwise stated	Quantitation of	Immunoassay using Siemens Centaur XPT by fluorescence unless otherwise stated
	Alpha-fetoprotein	SOP C.CENT 001
Plasma (EDTA)	CA 125	SOP C.CENT 004
	CA 15-3	SOP C.CENT 030
	CA 19-9	SOP C.CENT 005
	CEA	SOP C.CENT 006
	Cortisol	SOP C.CENT 007
Whole blood (EDTA) only	Cyclosporin	SOP C.CENT 008
	Digoxin	SOP C.CENT 009
	Ferritin	SOP C.CENT 010
	Folate	SOP C.CENT 020
	FSH	SOP C.CENT 013
	T3 (free)	SOP C.CENT 011
	T4 (free)	SOP C.CENT 012
	B12	SOP C.CENT 025
	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

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HUMAN BODY SAMPLES	Biochemical examination activities for the purposes of clinical diagnosis.	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum and plasma unless otherwise stated	Quantitation of	Immunoassay using Siemens Centaur XPT by fluorescence unless otherwise stated
	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 SAMPLES	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 pCO2 pO2 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

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HUMAN BODY SAMPLES	Biochemical examination activities for the purposes of clinical diagnosis.	In house documented procedures based on equipment manuals and standard methods as specified below:
Serum or Urine (Unless otherwise stated)	Quantification of:	Using Sebia Capillarys Octa 3 C.STS 041
	Monoclonal component	By Capillary Zone Electrophoresis
	Protein electrophoresis Detection of normal and abnormal protein electrophoretic patterns	By Capillary Zone Electrophoresis
	Paraproteins; Type A Type G Type M Type Kappa Type Lambda	By Immunosubtraction
Serum only	Detection of kappa & lambda light chains	by Gel immunofixation
CSF	Net Bilirubin Absorbance	Using North Star Uvikon XS analyser by spectrophotometry C.STS 061
CSF	Net Oxyhaemoglobin Absorbance	Using North Star Uvikon XS analyser by spectrophotometry C.STS 061
CSF	Xanthochromia	Using North Star Uvikon XS analyser by spectrophotometry C.STS 061
Sweat	Sweat chloride	ChloroChek coulometric titration C.STS 073
Urine	Drugs of abuse screening for: Amphetamines, barbiturates, benzodiazepines, cocaine, methadone, opiates, THC, tricyclic antidepressants	SOP C.STS 056 using Alere Triage UTOX

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