


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL</p> <p>8601</p> <p>Accredited to ISO 15189:2012</p>	<p>Northern Care Alliance NHS Foundation Trust</p> <p>Issue No: 007 Issue date: 03 December 2021</p>	
	<p>Royal Oldham Hospital Pathology-Biochemistry Department Rochdale Road Oldham OL1 2JH</p>	<p>Contact: Michelle Hurst Tel: +44 (0) 161 656 1679 E-Mail: michelle.hurst@pat.nhs.uk Website: www.pat.nhs.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address: Biochemistry Department Royal Oldham Hospital Rochdale Road Oldham OL1 2JH United Kingdom</p> <p>Local contact: Michelle Hurst</p>	<p>General Biochemistry Endocrinology Toxicology</p>	A
<p>Essential Services Laboratory Fairfield General Hospital Rochdale Old Road Bury BL9 7TD United Kingdom</p>	<p>General Biochemistry Endocrinology Toxicology</p>	B
<p>Essential Services Laboratory North Manchester General Hospital Delaunays Road Manchester M8 5RB United Kingdom</p>	<p>General Biochemistry Endocrinology Toxicology</p>	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 body fluids (as stated)	<u>Biochemical examination activities for the purposes of clinical diagnosis</u>	In house documented procedures based on equipment manuals and standard methods as specified below:	
	General chemistry	Abbott Architect by the following measurement principles using SOPs: BC-SOP-74 BC-SOP-75 BC-SOP-135 BC-SOP-137	
Serum, Plasma	Albumin	using Bromocresol purple	A, C
	Alkaline phosphatase	using Paranitrophenyl phosphate	A, C
	Alpha 1 Antitrypsin	using immunoturbidimetry	A
Serum	Alpha feto protein	using chemiluminescence	A
Serum, Plasma	Alanine amino transferase	using NADH without P-5-P	A, C
Plasma	Ammonia	using Glutamate dehydrogenase	A, C
Plasma, Serum Urine	Amylase	using 2-Chloro-p-nitrophenyl-GD maltroside	A, C A only
Serum, plasma	Aspartamine amino transferase	using NADH without P-5-P	A, C
Serum, plasma	Bicarbonate	using PEP carboxylase	A, C
	Bile Acids	using TBA enzyme cycling	A
	Bilirubin Conjugated	using Diazo colourimetry	A, C
	Bilirubin Total	using Diazo colourimetry	A, C
Serum, Plasma Urine	Calcium	using enzymatic arsenazo III	A, C A only
Serum, Urine	Chloride	using ICT chip method indirect	A, C A only



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Human body fluids (as stated)	<u>Biochemical examination activities for the purposes of clinical diagnosis</u> (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified below:	
	General chemistry	Abbott Architect by the following measurement principles using SOPs: BC-SOP-74 BC-SOP-75 BC-SOP-135 BC-SOP-137	
Serum, plasma	Cholesterol	using enzymatic GOD PAP	A, C
	Creatine Kinase	using NAC	A, C
Serum Urine	Creatinine	using enzymatic methods	A, C A only
Serum, plasma	C-Reactive Protein (CRP)	using immunoturbidimetry	A, C
Serum, plasma Urine	Ethanol	using enzymatic methods	A, C A only
Serum, plasma	Gamma GT	using IFCC standardised GGCM	A, C
Serum, Plasma CSF	Glucose	using hexokinase	A, C A only
Serum, plasma	Haptoglobin	using immunoturbidimetry	A
	HDL Cholesterol	using accelerator selective DHE	A, C
Serum, plasma	IGA	using immunoturbidimetry	A
	IGG		A
	IGM		A



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	<u>General chemistry</u>	Abbott Architect by the following measurement principles using SOPs: BC-SOP-74 BC-SOP-75 BC-SOP-135 BC-SOP-137	
Serum, plasma	Iron	using colourimetric ferene	A
Plasma,	Lactate	using lactic acid-pyruvate enzymatic PAP	A, C
Plasma	Lactate Dehydrogenase	using IFCC 2002 lactic acid-pyruvate	A, C
Serum, plasma Urine	Magnesium	using enzymatic arsenazo III	A, C A only
Serum, plasma Urine	Phosphate	using phosphomolybdate	A, C A only
Serum, plasma	Paracetamol	using colourimetry	A, C
Serum, plasma Urine	Potassium	using ICT chip indirect method	A, C A only
Serum, plasma	Total Protein	using Biuret	A, C
Urine, CSF	Protein	using Benzemethonium chloride	A
Serum	Rheumatoid Factor	using immunoturbidimetry	A
Serum, plasma	Salicyclate	using colourimetry	A, C
Serum, Plasma, Urine	Sodium	using ICT chip indirect method	A, C A only



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	<u>General chemistry</u>	Abbott Architect by the following measurement principles using SOPs: BC-SOP-74 BC-SOP-75 BC-SOP 135 BC-SOP-137	
Serum	SARS CoV-2 IgG	Automated 2 step Chemiluminescent Microparticle Immunoassay	A
Serum, plasma	Transferrin	using immunoturbidimetry	A
Serum, plasma	Triglycerides	using GPO	A, C
Serum, plasma	Troponin I	using chemiluminescence	A, C
Serum, plasma, Urine	Urate	using Uricase	A, C A only
Serum Urine	Urea	using Urease	A, C A only
Serum, plasma	Vitamin D	using chemiluminescence	A
	<u>General chemistry</u>	Abbott Alinity by the following measurement principles using SOP's: BC-SOP-74 BC-SOP-75 BC-SOP-135 BC-SOP-137	
Serum, Plasma	Albumin	using Bromocresol purple	A, B
Serum, Plasma	Alkaline phosphatase	using Paranitrophenyl phosphate	A, B
Serum, Plasma	Alpha 1 Antitrypsin	using immunoturbidimetry	A
Serum	Alpha feto protein	using chemiluminescence	A



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Human body fluids (as stated)	<u>Biochemical examination activities for the purposes of clinical diagnosis</u> (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified below:	
Serum, Plasma	Alanine amino transferase	using NADH without P-5-P	A, B
Plasma	Ammonia	using Glutamate dehydrogenase	A, B
Serum, plasma	Amylase	using 2-Chloro-p-nitrophenyl-GD maltroside	A, B
Urine		using CNPG3 substrate	A
Serum, plasma	Aspartamine amino transferase	using NADH without P-5-P	A, B
Serum, plasma	Bicarbonate	using PEP carboxylase	A, B
Serum, plasma	Bile Acids	using TBA enzyme cycling	A
Serum, plasma	Bilirubin Conjugated	using Diazo colourimetry	A, B
Serum, plasma	Bilirubin Total	using Diazo colourimetry	A, B
Serum, plasma	CA 19-9	Using chemiluminescent microparticle Immunoassay (CMIA)	A
Serum, plasma	Calcium	using enzymatic arsenazo III	A, B
Urine			A
Serum, plasma	Carbamazepine	using particle enhanced turbidimetric inhibition immunoassay (PETINIA)	A
Serum	Chloride	using ICT chip method indirect	A, B
Urine			A
Serum, plasma	Cholesterol	using enzymatic GOD PAP	A, B
Serum, plasma	Creatine Kinase	using NAC	A, B
Serum	Creatinine	using enzymatic methods	A, B
Urine			A
Serum, plasma	C-Reactive Protein (CRP)	using immunoturbidimetry	A, B



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Serum, plasma	Ethanol	using enzymatic methods	A, B
Serum, plasma	Gamma GT	using IFCC standardised GGCN	A, B
Serum, plasma Urine	Glucose	using hexokinase	A, B A
Serum, plasma	Haptoglobin	using immunoturbidimetry	A
Serum, plasma	HDL Cholesterol	using accelerator selective DHE	A, B
Serum, plasma	IGA	using immunoturbidimetry	A
Serum, plasma	IGG	using immunoturbidimetry	A
Serum, plasma	IGM	using immunoturbidimetry	A
Serum, plasma	Iron	using colourimetric ferene	A, B
Plasma	Lactate	using lactic acid-pyruvate enzymatic PAP	A, B
Plasma	Lactate Dehydrogenase	using IFCC 2002 lactic acid-pyruvate	A, B
Serum, plasma Urine	Magnesium	using enzymatic arsenazo III	A, B A
Serum, plasma	NT pro-BNP	Using chemiluminescent microparticle Immunoassay (CMIA)	A
EDTA plasma	Parathyroid hormone	Using chemiluminescent microparticle Immunoassay (CMIA)	A
Serum, plasma Urine	Phosphate	using phosphomolybdate	A, B A
Serum, plasma	Paracetamol	using colourimetry	A, B
Serum, plasma Urine	Potassium	using ICT chip indirect method	A, B A



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Serum, plasma	Procalcitonin	Using chemiluminescent microparticle Immunoassay (CMIA)	A
Serum, plasma	Total Protein	using Biuret	A, B
Urine		using immunoturbidimetry	A
CSF		using immunoturbidimetry	A
Serum	Rheumatoid Factor	using immunoturbidimetry	A
Serum, plasma	Salicyclate	using colourimetry	A, B
Serum, plasma	Sodium	using ICT chip indirect method	A, B
Urine			A
Serum, plasma	Transferrin	using immunoturbidimetry	A, B
Serum, plasma	Triglycerides	using GPO	A, B
Serum, plasma	Troponin I	using chemiluminescence	A, B
Serum, plasma	Urate	using Uricase	A, B
Urine			A
Serum	Urea	using Urease	A, B
Serum, plasma	Vitamin D	using chemiluminescence	A
	<u>Therapeutic Drug Monitoring</u>	Abbott Architect by the following measurement principles using SOPs BC-SOP-7, BC-SOP-74, BC-SOP-75	
Serum & plasma	Carbamazepine	using enzyme immunoassay	A
Serum & plasma	Digoxin	using particle-enhanced turbidimetric inhibition immunoassay	A
Serum & plasma	Gentamicin		A, C
Serum & plasma	Lithium	using turbidimetry	A
		using colourimetry	



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	<u>Therapeutic Drug Monitoring</u>	Abbott Architect by the following measurement principles using SOPs BC-SOP-7, BC-SOP-74, BC-SOP-75	
Serum & plasma	Phenytoin	using enzyme immunoassay	A
Serum & plasma	Sodium Valproate	using turbidimetry	A
Serum & plasma	Theophylline	using enzyme immunoassay	A
Serum & plasma	Vancomycin	using particle enhanced turbidimetric inhibition immunoassay	A, C
Serum & plasma	Digoxin	using particle-enhanced turbidimetric inhibition immunoassay	A
Serum & plasma	Gentamicin	using turbidimetry	A, B
Serum & plasma	Lithium	using colorimetry	A
Serum & plasma	Phenytoin	using enzyme immunoassay	A
Serum & plasma	Sodium Valproate	using turbidimetry	A
Serum & plasma	Theophylline	using enzyme immunoassay	A
Serum & plasma	Vancomycin	using particle enhanced turbidimetric inhibition immunoassay	A, B



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	<u>Tumour Markers</u>	Abbott Architect by the following measurement principles using SOPs: BC-SOP-74 BC-SOP-75 BC-SOP-135 BC-SOP-137	
Serum & plasma	CA-125	by chemiluminescence	A
Serum & plasma	CEA		A
Serum & plasma	PSA		A, C
		Roche Cobas e411 by chemiluminescence using SOP BC-SOP-53	
Serum & plasma	CA-153		A
Serum & plasma	CA-199		
Serum & plasma	HCG Total		
Serum & plasma	NT Pro BNP		
	<u>Tumour Markers</u>	Abbott Alinity by the following measurement principles using SOP's: BC-SOP-74 BC-SOP-75 BC-SOP-135 BC-SOP-137	
Serum & plasma	CA-125	by chemiluminescence	A
Serum & plasma	CEA		A
Serum & plasma	PSA		A, B



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Human body fluids (as stated)	<u>Biochemical examination activities for the purposes of clinical diagnosis</u> (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified below:	
Whole blood	<u>Blood Gases</u> Quantitation of: Bicarbonate Actual Bicarbonate Std - calculated Base Excess - calculated Carboxyhaemoglobin Haemoglobin Methaemoglobin Oxygen Saturation - calculated Oxyhaemoglobin PCO ₂ , PH, PO ₂	In house documented procedures BC-SOP-98 based on equipment manuals and standard methods using Instrumentation Laboratories GEM 4000	A, B, C
Serum & plasma	<u>Endocrinology</u> FSH FT3 FT4 HCG Pregnancy LH Progesterone Prolactin (macroprolactin) Testosterone TSH Oestradiol Sex hormone binding globulin	Abbott Architect by the following measurement principles using SOPs: BC-SOP-74 BC-SOP-75 BC-SOP-135 BC-SOP-137	A A A, C A, C A A A A A, C A A
Serum, plasma, Urine	Cortisol		A, C A only
Serum, plasma	Parathyroid	Roche e411 using electrochemiluminescence BC-SOP-53	A



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	<u>Endocrinology</u>	Abbott Alinity by the following measurement principles using SOP's: BC-SOP-74 BC-SOP-75 BC-SOP-135 BC-SOP-137	
Serum & plasma	FSH		A
Serum & plasma	FT3		A
Serum & plasma	FT4		A, B
Serum & plasma	HCG Pregnancy		A, B
Serum & plasma	LH		A
Serum & plasma	Progesterone		A
Serum & plasma	Prolactin (macroprolactin)		A
Serum & plasma	Testosterone		A
Serum & plasma	TSH		A, B
Serum & plasma	Oestradiol		A
Serum & plasma	Sex hormone binding globulin		A
Serum & plasma	Cortisol		A, B



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Serum	<u>Electrophoresis</u> Detection of normal & abnormal protein electrophoretic patterns	SOP by capillary electrophoresis using BC-SOP- 46 Sebia Capillarys 2	A
Serum, urine	Detection of monoclonal components	SOP BC-SOP-45 BC-SOP-46 by gel electrophoresis using Sebia Hydrasys 2	A
Urine	Quantification of Bence Jones Protein	SOP BC-SOP-45, BC-SOP-46 by gel electrophoresis using Sebia Capillarys 2 /Hydrasys 2	A
Serum	Paraprotein quantitation	SOP BC-SOP-45, BC-SOP-46 by capillary and gel electrophoresis using Sebia Capillarys 2 /Hydrasys 2	A
Serum, urine	Osmolality	SOP BC-SOP-38 by freezing point depression using Vitech Osmometer	A, B, C
Whole blood	HbA1c	SOP BC-SOP-9 by HPLC using TOSOH G11 (x4)	A
CSF	Xanthochromia screening	SOP BC-SOP-4 by spectrophotometry using Northstar Scientific	A



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Sweat	Conductivity	SOP BC-SOP-18 using WESCOR system and conductance meter	A
Sweat	Measurement of Sweat chloride	WESCOR Chlorocheck Chloride meter using SOP: BC-SOP-18	A
Urine	Urine volume	Weighing on calibrated balance using SOP: BC-SOP-37	A, B, C
Faeces	Quantitation of haemoglobin	HM-JACKarc Faecal Immunochemical Testing (FIT) Detection System by Kyowa Medex Co. Ltd. Integrated Sphere Latex Turbidimetry Method. Using BC-SOP-139	A
	<u>Calculated values</u>	Abbott Architect and Abbott Alinity using the same calculation programme Using SOP: BC-REC-4	
Plasma, Serum	Acute Kidney Injury (AKI) Corrected Calcium Cholesterol/HDL ratio Serum LDL Cholesterol Non-HDL Cholesterol EGFR		A, B, C
Plasma, Serum, Urine	Creatinine Clearance Calcium/creatinine ratio Hammersmith		A A A
Plasma, Serum	Free Androgen Index Prolactin Recovery Transferrin Saturation		A A A and B
Urine	24 hour urines Protein /Creatinine ratio Albumin/Creatinine ratio Calcium/Creatinine ratio		A A A A
END			