


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>UKAS</b> MEDICAL <b>9563</b>  Accredited to ISO 15189:2012	<b>Warrington and Halton Teaching Hospitals NHS Foundation Trust</b>	
	Issue No: 007 Issue date: 13 April 2022	
	<b>Biochemistry Department</b> Lovely Lane Warrington Cheshire WA5 1QG	<b>Contact: Steve Acton</b> Tel: +44 (0)1925 275592 E-Mail: s.acton1@nhs.net

**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
<b>Address</b> Biochemistry Department Warrington & Halton Teaching Hospitals NHS Foundation Trust Warrington Hospital Site Lovely Lane Warrington Cheshire WA5 1QG	<b>Local contact</b> Tracey Orford  Tel: 01925 662531	Clinical Chemistry Immunology  A
<b>Address</b> Biochemistry Department Warrington & Halton Teaching Hospitals NHS Foundation Trust Halton Hospital Site Runcorn Cheshire WA7 2DA	<b>Local contact</b> Tracey Orford  Tel: 01925 662531	Clinical Chemistry  B



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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 SAMPLES AND TISSUES	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures	
Serum/Plasma	<b><u>Renal Profile</u></b> Sodium  Potassium  Chloride  CO2  Urea  Creatinine	Siemens Advia Chemistry XPT by photometric and turbidimetric. SOPs BIO106, Bio 90, B-Doc37	A
Serum/Plasma	<b><u>Liver Profile</u></b> Total Bilirubin  Direct Bilirubin  AST  ALT  GGT  ALP  Total protein  Albumin	Siemens Advia Chemistry XPT by photometric and turbidimetric. SOPs BIO106, Bio 90, B-Doc37	A



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HUMAN SAMPLES AND TISSUES	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures	
	<b><u>Bone Profile</u></b>		
Serum/Plasma	ALP	Siemens Advia Chemistry XPT by photometric and turbidimetric. SOPs BIO106, Bio 90, B-Doc37	A
	Inorganic Phosphate		
	Calcium		
	Total protein		
	Albumin		
	<b><u>Haematinics</u></b>		
Serum/Plasma	Iron	Siemens Advia Chemistry XPT by photometric and turbidimetric. SOPs BIO106, Bio 90, B-Doc37	A
	Transferrin		
	<b><u>Lipids</u></b>		
Serum/Plasma	Cholesterol	Siemens Advia Chemistry XPT by photometric and turbidimetric. SOPs BIO106, Bio 90, B-Doc37	A
	Triglycerides		
	HDL		
	Cholesterol		



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HUMAN SAMPLES AND TISSUES	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures	
Serum/Plasma	<b><u>General Toxicology</u></b> Paracetamol  Salicylate  Ethanol	Siemens Advia Chemistry XPT by photometric and turbidimetric. SOPs BIO106, Bio 90, B-Doc37	A
Serum/Plasma	<b><u>Therapeutic drug Monitoring (TDM)</u></b> Digoxin  Theophylline  Phenytoin  Carbamazepine  Valproate	Siemens Advia Chemistry XPT by photometric and turbidimetric. SOPs BIO106, Bio 90, B-Doc37	A
Serum/Plasma	<b><u>Inflammatory Investigations</u></b> C-Reactive protein  Rheumatoid Factor  Uric Acid	Siemens Advia Chemistry XPT by photometric and turbidimetric. SOPs BIO106, Bio 90, B-Doc37	A



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HUMAN SAMPLES AND TISSUES	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures	
	<b><u>Diabetic Tests</u></b>		
Serum/Plasma	Glucose	Siemens Advia Chemistry XPT by photometric and turbidimetric. SOPs BIO106, Bio 90, B-Doc37	A
	<b><u>Proteins</u></b>		
Serum/Plasma	Total Protein	Siemens Advia Chemistry XPT by photometric and turbidimetric. SOPs BIO106, Bio 90, B-Doc37	A
	Albumin		
	IgA		
	IgG		
	IgM		
	C3		
	C4		
	Alpha -1- Antitrypsin		
	<b><u>General Chemistry</u></b>		
Serum/Plasma	Amylase	Siemens Advia Chemistry XPT by photometric and turbidimetric. SOPs BIO106, Bio 90, B-Doc37	A
Plasma (lithium/heparin)	Ammonia		
	Bile Acid		
	CK		
	Magnesium		
Serum/Plasma	Lithium	spectrophotometry	
Serum/Plasma	LDH	spectrophotometry	



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HUMAN SAMPLES AND TISSUES	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures	
Serum/plasma	<ul style="list-style-type: none"> <li>• Adjusted calcium</li> <li>• Cholesterol: HDL cholesterol ratio</li> <li>• LDL Cholesterol</li> <li>• Globulins</li> <li>• Anion Gap</li> <li>• Indirect bilirubin</li> <li>• Estimated GFR</li> <li>• AKI</li> <li>• Iron Saturation</li> <li>• Total Iron Binding capacity</li> </ul>	Calculated parameters: results obtained from analysis of assays on Advia1800/Advia XPT using SOP B-DOC318	A
Urine	<p><u>Urine Analysis</u></p> <p>Micro albumin</p> <p>Calcium</p> <p>Creatinine (Enzymatic)</p> <p>Potassium</p> <p>Sodium</p> <p>Phosphate</p> <p>Protein</p>	Siemens Advia Chemistry XPT by photometric and turbidimetric. SOPs BIO106, Bio 90, B-Doc37	A



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HUMAN SAMPLES AND TISSUES	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures	
	<b><u>Urine Analysis (cont'd)</u></b>		
Urine	Urea	Siemens Advia Chemistry XPT by photometric and turbidimetric. SOPs BIO106, Bio 90, B-Doc37	A
Urine	Uric acid		
Urine	<ul style="list-style-type: none"> <li>Albumin Creatinine Ratio</li> <li>Protein Creatinine Ratio</li> <li>Creatinine Clearance</li> </ul>	Calculated Parameters: results obtained from analysis of assays on Advia1800/Advia XPT using SOP B-DOC318	A
	<b><u>CSF Analysis</u></b>		
	Protein	Siemens Advia Chemistry XPT by photometric and turbidimetric. SOPs BIO106, Bio 90, B-Doc37	A
	Glucose		
	<b><u>Fertility tests</u></b>		
Serum/Plasma	FSH	Siemens Advia Centaur XPT chemiluminescence SOPs BIO24, BIO114, B-Doc37	A
	LH		
	Prolactin		
	Estradiol		
	Testosterone		
	Progesterone		
	HCG		



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HUMAN SAMPLES AND TISSUES	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures	
	<b><u>Thyroid Function</u></b>		
Serum/Plasma	FT3	Siemens Advia Centaur XPT chemiluminescence SOPs BIO24, BIO114, B-Doc37	A
	FT4		
	TSH		
	TPO		
	<b><u>Oncology tests</u></b>		
Serum/Plasma	CEA	Siemens Advia Centaur XPT chemiluminescence SOPs BIO24, BIO114, B-Doc37	A
	CA125		
	PSA		
	AFP		
	CA-19-9		
	<b><u>Investigation of anaemia</u></b>		
Serum/Plasma	Vitamin B12	Siemens Advia Centaur XPT chemiluminescence SOPs BIO24, BIO114, B-Doc37	A
	Folate		
	Ferritin		





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HUMAN SAMPLES AND TISSUES	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures	
	<b><u>Adrenal Function</u></b>		
Serum/Plasma	Cortisol	Siemens Advia Centaur XPT chemiluminescence SOPs BIO24, BIO114, B-Doc37	A
	<b><u>Cardiovascular tests</u></b>		
Serum/Plasma	Troponin I High sensitivity	Siemens Advia Centaur XPT chemiluminescence SOPs BIO24, BIO114, B-Doc37	A
	BNP		
Serum/Plasma	PTH	Siemens Advia Centaur XPT chemiluminescence SOPs BIO24, BIO114, B-Doc37	A
	Gentamicin		
	Vitamin D		
	Vancomycin		
	<b><u>Allergy &amp; Autoimmunity</u></b>		
Serum/Plasma	CTD screen (IgG)	Phadia 250 analyser SOP BIO73	A
	IgA TTG		
	MPO/PR3		
	aGBM		
	Total IgE		
Serum	Anti-CCP by detection of specific IgG		
	Specific allergens		



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HUMAN SAMPLES AND TISSUES	<p><u>Biochemistry examination activities for the purposes of clinical diagnosis</u></p> <p><b><u>Allergy &amp; Autoimmunity (cont'd)</u></b></p> <p>Detection and quantification of specific IgE to the following allergens:</p>	In-house documented procedures	
Serum/Plasma	<p><b>Food panel:</b></p> <ul style="list-style-type: none"> <li>• Egg White</li> <li>• Egg Yolk</li> <li>• Cow's milk</li> <li>• Cod fish</li> <li>• Wheat</li> <li>• Soybean</li> <li>• Gluten</li> <li>• Coconut</li> </ul>	Phadia 250 analyser SOP BIO73	A
Serum/Plasma	<p><b>Nut panel:</b></p> <ul style="list-style-type: none"> <li>• Peanut</li> <li>• Hazelnut</li> <li>• Brazil nut</li> <li>• Almond</li> <li>• Cashew</li> <li>• Walnut</li> <li>• Pecan</li> <li>• Pistachio</li> </ul>	Phadia 250 analyser SOP BIO73	A
Serum/Plasma	<ul style="list-style-type: none"> <li>• House Dust Mite</li> <li>• Timothy Grass Pollen</li> <li>• Common Silver Birch</li> <li>• Aspergillus fumigatus</li> <li>• Cat</li> <li>• Dog</li> <li>• Rabbit epithelium</li> </ul>	Phadia 250 analyser SOP BIO73	A



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Serum/Plasma	<p><b>Mould panel:</b></p> <ul style="list-style-type: none"> <li>• Penicillium chrysogenum</li> <li>• Cladosporium herbarum</li> <li>• Aspergillus fumigatus</li> <li>• Candida albicans</li> <li>• Alternaria alternate</li> <li>• Setomelanomma rostrata</li> </ul>	Phadia 250 analyser SOP BIO73	
Faeces	Calprotectin	Phadia 250 analyser SOP BIO73	A
Urine	identification of urine free light chains	Helena SAS V8 Analyser using agarose gel electrophoresis method SOP BIO36	A
Serum	Identification and quantification of paraprotein bands in serum	Helena SAS V8 Analyser using CZE and immunodisplacement SOP BIO 35	A
Urine	Pregnancy Diagnosis Test - Human chorionic gonadotrophin (hCG)	The SureStep One Step hCG Pregnancy Test is a qualitative immunoassay. SOP BIO3	A
Blood	<p>Arterial Blood Gases:</p> <ul style="list-style-type: none"> <li>• pH</li> <li>• pCO2</li> <li>• pO2</li> <li>• HCO3</li> <li>• Base Excess</li> <li>• O2 saturation</li> <li>• Lactate</li> <li>• Haematocrit</li> <li>• Haemoglobin</li> <li>• Carboxyhaemoglobin</li> <li>• Methaemoglobin</li> </ul>	Siemens RapidLab 1265 Blood Gas Analyser SOP BIO104, Bio105	A



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HUMAN SAMPLES AND TISSUES	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures	
Serum, Urine	Osmolality	Osmo 1osmometer SOP BIO45	A
Serum/Plasma	Macroprolactin	PEG precipitation SOP BIO48 Siemens Advia Centaur XPT chemiluminescence SOPs BIO24, BIO114, B-Doc37	A
Blood	HbA1c	Sebia Capillary3 Tera analyser using Capillary Zone Electrophoresis (CZE)	A
CSF	Xanthochromia	Spectrophotometry using Hitachi Spectrophotometer UV-Vis 2910 SOP BIO59	A
	<b><u>Renal Profile</u></b>		
Serum/Plasma	Sodium	Siemens Advia 1800 photometric and turbidimetric. SOPs BIO115, Bio 90, B-Doc37	B
	Potassium		
	Urea		
	Creatinine		
	Chloride		
	Zinc		



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HUMAN SAMPLES AND TISSUES	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures	
Serum/Plasma	<b><u>Liver Profile</u></b> Total bilirubin  AST  ALT  GGT  ALP  Total protein  Albumin	Siemens Advia 1800 photometric and turbidimetric. SOPs BIO115, Bio 90, B-Doc37	B
Serum/Plasma	<b><u>Bone Profile</u></b> ALP  Inorganic Phosphate  Calcium  Total protein  Albumin	Siemens Advia 1800 photometric and turbidimetric. SOPs BIO115, Bio 90, B-Doc37	B



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HUMAN SAMPLES AND TISSUES	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures	
	<b><u>Lipids</u></b>		
	Triglycerides		
	<b><u>Diabetic Tests</u></b>		
Serum/Plasma	Glucose	Siemens Advia 1800 photometric and turbidimetric. SOPs BIO115, Bio 90, B-Doc37	B
	<b><u>Inflammatory investigation</u></b>		
Serum/Plasma	CRP	Siemens Advia 1800 photometric and turbidimetric. SOPs BIO115, Bio 90, B-Doc37	B
Serum/plasma	Adjusted calcium	Calculated parameters: results obtained from analysis of assays on Advia1800/Advia XPT using SOP B-DOC318	B
	Globulins		
	Estimated GFR		
Faeces	FIT - Faecal immunochemical testing – quantitative measurement of haemoglobin	OC Sensor iO analyser	A

END