


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>8491</b> <b>Accredited to ISO 15189:2012</b>	<b>Sheffield Teaching Hospitals NHS Foundation Trust</b>	
	<b>Issue No:</b> 006 <b>Issue date:</b> 28 October 2024	
	<b>Department of Clinical Chemistry Laboratory Medicine Centre Northern General Hospital Herries Road Sheffield S5 7AU United Kingdom</b>	<b>Contact: Dean Tazzyman Tel: +44 (0) 114 2266454 E-Mail: dean.tazzyman@nhs.net Website: www.sth.nhs.uk</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details		Activity	Location code
<b>Address</b> Department of Clinical Chemistry Laboratory Medicine Centre (North Lane) Northern General Hospital Herries Road Sheffield S5 7AU	<b>Local contact</b> Dean Tazzyman	Clinical Biochemistry	NGH
<b>Address</b> Department of Clinical Chemistry Royal Hallamshire Hospital Glossop Road Sheffield S10 2JF	<b>Local contact</b> Dean Tazzyman	Clinical Biochemistry	RHH



8491  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Sheffield Teaching Hospitals NHS Foundation Trust**

**Issue No: 006    Issue date: 28 October 2024**

**Testing performed by the Organisation at the locations specified**

**DETAIL OF ACCREDITATION**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Serum	Albumin	Roche Cobas 8000 (c702 module) Spectrophotometric assay SOP CCTAUTO060	NGH, RHH
	Alkaline Phosphatase		
	ALT		
	AST		
	Amylase		
	Ammonia		
	Bicarbonate		
	Bilirubin		
	Direct bilirubin		
	Calcium		
	Cholesterol		
	Creatinine Kinase		
	Creatinine (Jaffe)		
	Glucose		
	Protein		
	Iron		
	Unsaturated Iron Binding Capacity		
Serum/plasma	LDH		
Serum	Triglyceride		
	Urea		
	Gamma-GT		
	HDL Cholesterol		
	Lithium		NGH
	Phosphate		NGH, RHH
	Magnesium		
	Uric Acid		
CSF	Protein		
	Glucose		
	Lactate		
Plasma	Lactate	Spectrophotometric assay	
Serum	Vancomycin	Enzyme immunoassay	



8491  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Sheffield Teaching Hospitals NHS Foundation Trust**

**Issue No: 006    Issue date: 28 October 2024**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Serum	C-reactive protein	Roche Cobas 8000 (c702 module) (*ISE module) SOP CCTAUTO045	NGH, RHH
Serum, Urine	Sodium Potassium Chloride	Indirect ion selective electrode*	NGH, RHH
Serum	Creatinine (Enzymatic)	Spectrophotometric assay	RHH
	Gentamicin	Cloned enzyme donor immunoassay	RHH
	Paracetamol	Spectrophotometric assay	NGH
	Salicylate	Spectrophotometric assay	NGH
	Ethanol	Spectrophotometric assay	NGH
	Beta-hydroxybutyrate	Spectrophotometric assay	NGH
	Tobramycin	Enzyme immunoassay	NGH
	Valproate	Enzyme immunoassay	NGH
	Carbamazepine	Kinetic interaction of microparticles in solution assay	NGH
	Phenobarbital	Kinetic interaction of microparticles in solution assay	NGH
	Bile Acids	Roche Cobas 8000 using Diazyme reagents RCCAUTO103	RHH
	Angiotensin Converting Enzyme	Roche Cobas 8000 using Buhlmann reagents RCCAUTO103	RHH



8491  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Sheffield Teaching Hospitals NHS Foundation Trust**

**Issue No: 006    Issue date: 28 October 2024**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Urine	Phenytoin	Roche Cobas 8000 (c702 module) SOP CCTAUTO060  Kinetic interaction of microparticles in solution assay	NGH, RHH
	Theophylline	Kinetic interaction of microparticles in solution assay	NGH
	Microalbumin	Immunoturbidimetric assay	NGH, RHH
	Protein	Spectrophotometric assay	
	Amylase	Spectrophotometric assay	
	Calcium	Spectrophotometric assay	
	Creatinine (Jaffe)	Spectrophotometric assay	
	Glucose	Spectrophotometric assay	
	Urea	Spectrophotometric assay	
	Phosphate	Spectrophotometric assay	RHH
	Magnesium	Spectrophotometric assay	NGH, RHH
	Uric Acid	Spectrophotometric assay	



8491  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Sheffield Teaching Hospitals NHS Foundation Trust**

**Issue No: 006    Issue date: 28 October 2024**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Serum	Ferritin	Chemiluminescent immunoassay Roche Cobas 8000 (e801 module) SOP CTTAUTO060	NGH, RHH
	B12		
	Beta hCG		
	Cortisol		
	Free T4		
	Free T3		
	TSH		
	Digoxin		NGH
	high sensitivity Troponin T		NGH, RHH
Serum	Vitamin D	Protein binding assay	
	Folate	Protein binding assay	
Plasma	Parathyroid hormone	Chemiluminescent immunoassay	NGH
Serum	FSH	Chemiluminescent immunoassay	RHH
	LH		RHH
	Oestradiol		RHH
	Testosterone		RHH



8491  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Sheffield Teaching Hospitals NHS Foundation Trust**

**Issue No: 006    Issue date: 28 October 2024**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Serum	Progesterone	Chemiluminescent immunoassay Roche Cobas 8000 (e801 module) SOP CTTAUTO045	RHH
	SHBG		RHH
	Prolactin		RHH
	Insulin		RHH
	Anti-Mullerian hormone		RHH
Plasma	Growth hormone		RHH
	ACTH		RHH
Serum	C-Peptide		RHH
	P1NP		NGH
	nt-ProBNP		NGH
	<u>IGF-1</u>	<u>Electrochemiluminescent Immunoassay using Roche Cobas 8000 (e801)</u>	RHH
	Teicoplanin	Thermo reagent, QMS immunoassay	NGH



8491  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Sheffield Teaching Hospitals NHS Foundation Trust**

**Issue No: 006    Issue date: 28 October 2024**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Urine	Drugs of abuse screening:	Roche reagents c501 Immunoturbidimetric assay RCCTX7069	NGH
	Barbiturate Cannabinoids		
	Screening and confirmation of the drugs of abuse: Amphetamine	In house assay, Thermo Fisher Q-Exactive High Resolution Mass Spectrometer SOP RCCTX7107	
	Benzodiazepine		
	Cocaine and metabolites		
	Gabapentin		
	Ketamine		
	Methadone and metabolites		
	Noscapine		
	Opiates		
	Oxycodone		
	Pregabalin		
	Tramadol		
	Buprenorphine and metabolites		



8491  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Sheffield Teaching Hospitals NHS Foundation Trust**

**Issue No: 006 Issue date: 28 October 2024**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Blood/urine	Drugs of abuse screen and Quantitation  Amphetamine Cocaine Benzoylcegonine Alprazolam Diazepam Nordiazepam Chlordiazepoxide Temazepam Codeine Dihydrocodeine Free morphine Total morphine Citalopram N-desmethylocitalopram, Mirtazapine Amitriptyline Nortriptyline Sertraline Venlafaxine O-Desmethylvenlafaxine, Pregabalin Gabapentin Diphenhydramine Tramadol O-Desmethyltramadol Paracetamol Oxycodone Clozapine,, Desmetnyclozapine Methadone Propranolol MDMA MDA Ketamine Methamphetamin	In house assay, Q-Exactive High Resolution Mass Spectrometer using SOP SCTX021	NGH
Blood, Urine	Ethanol	In house assay using Varian Head Space GC and SOP RCCTX0008	NGH
Plasma/serum	Ethylene glycol	In house assay using Agilent 5575 GC and SOP SCTX001	NGH





8491  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Sheffield Teaching Hospitals NHS Foundation Trust**

**Issue No: 006    Issue date: 28 October 2024**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>	NGH
Serum, blood, gastric contents, urine	Lamotrigine	In house assay using Thermo Fisher Accela HPLC and SOP'S RCCTX7040	
	Dothiepin	RCCTX0048	
	Nordothiepin	RCCTX0005	
	Fluoxetine	RCCTX0005	
	Trazodone	RCCTX0070	
	Salicylate	RCCTX0004	
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>	NGH
Serum, Blood, Urine, gastric contents*	Amphetamine	In house assays using Agilent 5575 GCMS and SOPs: - SCTX013	
	Methyl Amphetamine	SCTX013	
	MDMA	SCTX013	
	methylenedioxymethamphetamine		
	MDA	RCCTX0038	
	methylenedioxyamphetamine		
	Barbiturates	RCCTX0072	
	Cyclizine	SCTX003	
	Procyclidine	SCTX003	



8491  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Sheffield Teaching Hospitals NHS Foundation Trust**

**Issue No:** 006 **Issue date:** 28 October 2024

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Whole Blood	Carboxyhaemoglobin	In house assay using Uvikon Spectrophotometer and SOP RCCTX0014	NGH
Blood	Ciclosporin Tacrolimus Sirolimus	In house assay using Thermo Fisher TSQ Ultra LCMS and SOP SCCL004	NGH
Serum Serum	DHEAS hCG	Siemens Immunlite 2000 Chemiluminescent assay SOP RCCENDA0003	RHH



8491

Accredited to  
ISO 15189:2012

## Schedule of Accreditation

issued by

### United Kingdom Accreditation Service

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

### Sheffield Teaching Hospitals NHS Foundation Trust

Issue No: 006 Issue date: 28 October 2024

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Urine	5HIAA Catecholamines Metanephrines	HPLC Ultimate 3000 using Chromsystems Kits and SOPs SCC019 5HIAA SCC020 Catecholamines SCC021 Metanephrines	NGH
	17-hydroxy progesterone Androstenedione	In house assay using Thermo Fisher TSQ Ultra LCMS and SOP  SCCL002 SCCL002	NGH



8491  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Sheffield Teaching Hospitals NHS Foundation Trust**

**Issue No: 006    Issue date: 28 October 2024**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Serum	Copper Selenium Zinc Aluminium	In house assay ICP-MS using Agilent 7700 <b>SCTM004</b> <b>SCTM004</b> <b>SCTM004</b> <b>SCTX007</b>	NGH    NGH
Blood	Lead	SCTM005	NGH
Urine	Copper	SCTM004	
Urine, Dialysis Water	Lead	CCNTTMET015	
Serum	Alkaline Phosphatase Isoenzymes	Helena IEF electrophoresis and SOP SCTM010	NGH
Urine	hCG	Manual radio immunoassay using polyclonal antibody and SOP RCCENDM0015	NGH
Faeces	Pancreatic Elastase	BUHLMANN fPELA turbo assay kit and SOP RCCENDM0009	RHH
Urine	hCG (pregnancy test)	Alere hCG lateral flow cassette test and SOP RCCENDM0026	RHH
Serum, Urine	Osmolality	Vitech osmometer using freezing point depression and SOP CCNAUTO0021 & RCCAUTO0007	NGH,RHH
CSF	Bilirubin	Uvikon scanning Spectrophotometer with BioC software and SOP CCNTENDM014	RHH



8491  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Sheffield Teaching Hospitals NHS Foundation Trust**

**Issue No: 006    Issue date: 28 October 2024**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>  <b>Calculated Tests for the purposes of clinical diagnosis:</b>	<u>In house documented methods incorporating manufacturers' instructions as required</u>  By calculation	
Serum	% Saturation IBC		
Serum	Anion Gap		
Serum	Corrected Calcium		
Urine	Creatinine Clearance		
Urine	Fractional Excretion of Calcium		
Serum	Free Androgen Index		
Serum	Globulin		
Serum	LDL Cholesterol		
Serum	Non-HDL Cholesterol		
Serum	Osmolal Gap		
Urine	Renal Phosphate Threshold		
Urine	SMV NTX/CR Ratio		
Serum	Total Cholesterol/HDL Ratio		
Serum	Total Iron Binding Capacity		
Urine	Urea Clearance		
Urine	Amylase/Creatinine Clearance ratio		
Urine	Urine Copper/Creatinine Ratio		
Urine	Urine Mercury/Creat Ratio		
Urine	Urine Microalbumin Ratio		
Urine	Urine Protein/Creatinine ratio		
Urine	Urine lead/creat ratio		
Serum	eGFR EPI		
Urine	24hr Urine Calcium		
Urine	24hr Urine Chloride		
Urine	24hr Urine Creatinine		
Urine	24hr Urine Copper		
Urine	24hr Urine Potassium		
Urine	24hr Urine Microalbumin		
Urine	24hr Urine Magnesium		



8491  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Sheffield Teaching Hospitals NHS Foundation Trust**

**Issue No: 006    Issue date: 28 October 2024**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>  <b>Calculated Tests for the purposes of clinical diagnosis:</b>	<u>In house documented methods incorporating manufacturers' instructions as required</u>  By calculation	
Urine	24hr Urine Sodium		
Urine	24hr Urine NTX/Creatinine ratio		
Urine	24hr Urine Phosphate		
Urine	24hr Urine Protein		
Urine	24hr Urine Uric Acid		
Urine	24hr Urine Urea		
Urine	24hr Urine Lead		
Serum	% Recovery Prolactin		
Urine	Urine PBG/Creatinine ratio		
Urine	Calcium excretion		
Serum	FSH/LH Ratio		
Urine	Amylase Creatinine ratio		
Urine	Urine Urea (Mass)		
Urine	Urine Creatinine (Mass)		
Urine	Urine Noradrenaline / Creatinine ratio		
Urine	Urine Adrenaline / Creatinine ratio		
Urine	Urine Dopamine / Creatinine ratio		
Urine	24hr Urine Dopamine		
Urine	24hr Urine Adrenaline		
Urine	24hr Urine Noradrenaline		
Urine	24hr Urine Metanephrines		
Urine	24hr Urine Normetanephrines		
Urine	24hr Urine 5HIAA		
END			