


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>8071 Accredited to ISO 15189:2022</p>	<h3>North Bristol NHS Trust</h3> <p>Issue No: 014 Issue date: 19 February 2026</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:	<u>Biochemistry examination activities for the purpose of clinical diagnosis:</u>	Documented procedures & manufacturer's instructions for Beckman AU5800 / DXI8000
Serum/ Plasma unless otherwise specified	Quantification of:	BS/CB/AUTO/BECK/12 BS/CB/AUTO/BECK/14
	ACE	Photometric
	AFP (Tumour)	Sandwich
& Ascitic and Pleural Fluids	Albumin	Colourimetric assay (serum/plasma) Turbidimetric assay (Urine/CSF)
	ALP	Kinetic Colour
	ALT	Kinetic UV
	AMH (anti Mullerian hormone)	Sandwich Immunoassay
Plasma EDTA only	Ammonia	Direct Enzyme
& Ascitic and Pleural Fluids/urine	Amylase	Enzymatic colourimetric
	AST	Kinetic UV
	B12	Competitive immunoassay
	Bicarbonate	Enzymatic
	Ca-125	Sandwich immunoassay
	Ca15-3	Sandwich immunoassay
	Ca19-9	Sandwich immunoassay
& Urine	Calcium	Photometric
	Carbamazepine	Enzyme immunoassay



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HUMAN BODY FLUIDS (cont'd):	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented procedures & manufacturer's instructions for Beckman AU5800 / DXI8000 and BS/CB/AUTO/BECK/12 BS/CB/AUTO/BECK/14
Serum/ Plasma unless otherwise specified (cont'd)	Quantification of: (cont'd)	
& Urine	CEA	Sandwich immunoassay
& Ascitic and Pleural fluids	Chloride	Indirect ISE
	Cholesterol	Enzymatic colourimetric
	CK	Kinetic UV
	Cortisol	Sandwich immunoassay
& Ascitic and Pleural Fluids/ Urine	Creatinine	Enzymatic colourimetric
	CRP	Immunoturbidometric
	Digoxin	Immuno-inhibition
	Direct Bilirubin	Photometric
	Ethanol	Enzymatic
	Erythropoietin	Competitive immunoassay
	Ferritin	Sandwich immunoassay
	Folate	Competitive binding receptor
	Free T3	Competitive immunoassay
	Free T4	Two step enzymatic
	FSH	Sandwich immunoassay
	Gamma GT	Enzymatic colourimetric
& Ascitic and Pleural Fluids/CSF	Glucose	Enzymatic UV
	HCG	Two Step enzymatic
	HDL Cholesterol	Enzymatic colourimetric
	Intrinsic Factor antibodies (IFAB)	Competitive Immunoassay



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented procedures & manufacturer's instructions for Beckman AU5800 / DXI800 and BS/CB/AUTO/BECK/12 BS/CB/AUTO/BECK/14
Serum/ Plasma unless otherwise specified (cont'd)	Quantification of: (cont'd)	
	Iron	Photometric
Plasma & CSF	Lactate	Enzymatic Colourimetric
& Ascitic and Pleural Fluids	LDH	Kinetic UV
	LH	Sandwich Immunoassay
	Lipase	Kinetic colourimetric
	Lithium	Spectrophotometric
	Macroprolactin	PEG precipitation BS/CB/AUTO/MAN/4
& Urine	Magnesium	Photometric colour
Urine	Microalbumin	Turbidimetric
	Oestradiol	Competitive immunoassay
	Paracetamol	Enzyme immunoassay
Plasma EDTA only	Parathyroid hormone	Sandwich immunoassay
	Phenobarbitone	Enzymatic immunoassay
	Phenytoin	Enzymatic immunoassay
& Urine	Phosphate	Photometric UV
& Urine	Potassium	Indirect ISE
	Progesterone	Sandwich immunoassay
	Prolactin	Sandwich immunoassay
Serum	Prostate Specific Antigen (PSA)	Sandwich immunoassay
	Salicylate	Enzymatic immunoassay



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HUMAN BODY FLUIDS (cont'd): Serum/ Plasma unless otherwise specified (cont'd) & Urine	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd) Quantification of: (cont'd) Sodium SHBG Testosterone Theophylline Total Bile Acids Total Bilirubin	Documented procedures & manufacturer's instructions for Beckman AU5800 / DXI800 BS/CB/AUTO/BECK/12 BS/CB/AUTO/BECK/14 Indirect ISE Sandwich immunoassay Competitive immunoassay Enzyme immunoassay Enzyme immunoassay Photometric Colour
& Ascitic and Pleural Fluids/CSF/ Urine	Total Protein	Turbidimetric
& Ascitic and Pleural Fluids	TPO (Anti-thyroid peroxidase antibodies) Triglycerides Troponin I TSH	Sandwich Immunoassay Enzymatic colourimetric Sandwich immunoassay Sandwich immunoassay
& Ascitic and Pleural Fluids/Urine & Urine	Urea Uric Acid Transferrin Saturation Vitamin D NT Pro BNP	Kinetic UV Enzymatic colourimetric Immunoturbidimetric 2 step competitive binding immunoassay Biomerieux Vidas Immunoassay (ELFA) BS/CB/AUTO/BECK/14
& Urine	Osmolality	Advanced Micro-Osmometer model 3320 and freezing point depression BS/CB/AUTO/MAN/16



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HUMAN BODY FLUIDS (cont'd):	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented procedures & manufacturer's equipment instructions in conjunction with documented in-house procedures:
Urine	<u>Metabolic Biochemistry</u> Organic Acids 7-Dehydrocholesterol	Thermo Scientific GC-MS BS/CB/MB/GCMS/23 Shimadzu 2010 Ultra GC/MS extraction, saponification and derivitisation and in house method: BS/CB/MB/GCMS/17
Urine	Galactitol	Shimadzu 2010 Ultra GC/MS Formation of hexa-acetate and in- house method: BS/CB/MB/GCMS/18
Urine	Methylmalonic Acid	Shimadzu 2010 Ultra GC/MS solvent extraction and in-house method: BS/CB/MB/GCMS/19
Whole blood/Dried blood spot	Very long chain fatty acids C22.0 C24.0 C26.0 Pristanate Phytanate Galactosaemia screen	Shimadzu 2010 Ultra GC/MS extraction of deuterated methyl esters and in-house method: BS/CB/MB/GCMS/16 Manual Fluorimetric reduction assay and in-house method BS/CB/MB/Manual/2
Whole Blood	Galactose -1-Phosphate (G-1-P)	Waters Acquity TQD HPLC-MS/MS and in-house method BS/CB/MB/MS/7
Whole blood lithium heparin- washed red blood cells	Galactose-1-Phosphate Uridyl Transferase Galactose-1-Phosphate Uridyl Transferase	Waters TQD Acquity Tandem Mass Spectrometer with Waters Acquity HPLC system (HPLC MS-MS) (TMS) BS/CB/MB/MS/3



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HUMAN BODY FLUIDS (cont'd):	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented procedures & manufacturer's equipment instructions in conjunction with documented in-house procedures:
	<u>Metabolic Biochemistry</u> (cont'd)	
Whole blood lithium heparin-washed red blood cells	Galactokinase	BS/CB/MB/MS/5
Serum/Plasma	Free fatty acids and Hydroxybutyrate	Beckman AU5800 Kinetic reduction method and in-house method: BS/CB/MB/Manual/1
& Dried blood spot	Acylcarnitine	Waters Acquity TQD TMS Extraction of butyl ester derivatives BS/CB/MB/MS/1
Plasma/Urine/CSF	Quantitation of amino acids	Biochrom 30+ HPLC ion exchange chromatography BS/CB/MB/CHR/34
	Quantitation of:	
Serum and plasma (heparin and EDTA)	Cholinesterase activity	Beckman AU5800 Colourimetric BS/CB/CIU/PHEN/5
	Determination of:	
	Cholinesterase phenotype	Lambda 25 spectrophotometer colourimetric assay BS/CB/CIU/PHEN/1



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HUMAN BODY FLUIDS (cont'd):	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented -in-house methods to meet the requirements of the Newborn blood spot screening programme* as defined in the 'NHS Newborn Blood Spot Screening Programme: laboratory QA evidence requirements'
	<u>Newborn Screening:</u>	
	Detection of:	
Dried blood spot	17-OH Progesterone	Perkin Elmer GSP. Fluoroimmuno-metric assay BS/CB/NBS/GSP/6
Dried blood spot	Immunoreactive trypsin (IRT)*	Perkin Elmer GSP. Fluoroimmuno-metric assay BS/CB/NBS/GSP/1
Dried blood spot	Thyroid Stimulating Hormone (TSH)*	Perkin Elmer GSP. Fluoroimmuno-metric assay BS/CB/NBS/GSP/2
Dried blood spot	Sickle Cell Haemoglobin*	Bio-Rad Variant HPLC cation exchange BS/CB/NBS/HPLC/2
		Waters Xevo TQD electrospray ionisation Deuterated stds ratios BS/CB/NBS/MS/7
Dried Blood spot	Diet Phenylalanine	BS/CB/NBS/MS/8
Dried Blood spot	Diet Tyrosine	BS/CB/NBS/MS/8



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HUMAN BODY FLUIDS (cont'd):	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented procedures & manufacturer's equipment instructions in conjunction with documented in-house procedures:
Urine	<u>Toxicology</u> Presumptive screening for the presence of Drugs of Abuse (cut off) : Amphetamines (1000 ug/L) Barbiturates (200 ug/L) Benzodiazepines (200 ug/L) Cannabinoids (50 ug/L) Cocaine metabolite (300 ug/L) Methadone (300 ug/L) Methadone Metabolite (EDDP) (100ug/L) Opiates (300 ug/L)	
Vitreous humour	Beta-hydroxybutyrate	Beckman AU5800 and in house method BS/CB/TOX/FT/43
Vitreous humour	Sodium	
Vitreous humour	Urea	
Vitreous humour	Creatinine	
Vitreous humour	Glucose	
	Quantification of:	Kinetic Indirect ISE Kinetic UV Enzymatic colourimetric Enzymatic UV
Whole blood	Cyclosporin (LLOQ 20 ug/L)	
Whole blood	Tacrolimus (LLOQ 0.5 ug/L)	
Whole blood	Sirolimus (LLOQ 2.0 ug/L)	
Serum	Iohexol Glomerular Filtration Rate (calculated parameter)	Waters TQD Tandem Mass Spectrometer TMS BS/CB/TOX/CT/8 Waters TQD Tandem Mass Spectrometer TMS BS/CB/TOX/CT/55



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd):	Documented procedures & manufacturer's equipment instructions in conjunction with documented in-house procedures:
Urine	Confirmation (Qualitative) analysis above specified cut off limits for drugs of abuse (Cut off limit) Amphetamine confirmation: Amphetamine (10 ug/L) Methamphetamine (10 ug/L) MDMA (10 ug/L) MDA (10 ug/L) Ketamine (10 ug/L)	Waters Xevo TQS Micro Tandem Mass Spectrometer BS/CB/TOX/CT/56
Urine	Opioid Confirmation: Morphine (10 ug/L) Codeine (10 ug/L) Dihydrocodeine (10 ug/L) Methadone (10 ug/L) Methadone metabolite (EDDP) (10 ug/L) 6-monoacetyl morphine (10 ug/L) Tramadol (25 ug/L) Desmethyltramadol (25 ug/L)	BS/CB/TOX/CT/54
Whole blood, serum or plasma	Quantitative analysis of drugs (LLOQ): Amphetamine (0.05mg/L) Methamphetamine (0.05 mg/L) MDMA (0.05 mg/L) MDA (0.05 mg/L) Ketamine (0.05 mg/L)	Waters TQS Micro Tandem mass spectrometer Liquid extraction, LC-MS/MS SOP BS/CB/TOX/FT/16
Whole blood, serum or plasma	Diazepam (20 ug/L) Desmethyldiazepam (20 ug/L) Temazepam (20 ug/L) Chlordiazepoxide (20 ug/L) Oxazepam (20 ug/L) Nitrazepam (20 ug/L) Midazolam (20 ug/L) Lorazepam (20 ug/L)	Waters TQS Micro Tandem mass spectrometer Liquid extraction, LC-MS/MS BS/CB/TOX/FT/41
Whole blood, serum or plasma	Quantitation analysis of drugs: (LLOQ) Cocaine (0.01 mg/L) Benzoylecgonine (0.01 mg/L)	Waters TQS Micro Tandem mass spectrometer Liquid extraction, LC-MS/MS SOP BS/CB/TOX/FT/19



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Whole blood, serum or plasma	Morphine (0.01 mg/L) Codeine (0.01 mg/L) Dihydrocodeine (0.01 mg/L) Methadone (0.01 mg/L) EDDP (0.01 mg/L) Tramadol (0.01 mg/L) Desmethyltramadol (0.01 mg/L)	Waters TQS Micro Tandem mass spectrometer Liquid extraction, LC-MS/MS SOP BS/CB/TOX/FT/14
Whole blood, serum or plasma	Citalopram (0.02 mg/L) Norcitalopram (0.02 mg/L) Fluoxetine (0.02 mg/L) Venlafaxine (0.02 mg/L) Desmethylvenlafaxine (0.02 mg/L) Sertraline (0.02 mg/L) Paroxetine (0.05 mg/L)	Waters TQS Micro Tandem mass spectrometer Liquid extraction, LC-MS/MS BS/CB/TOX/FT/17
Whole blood, serum or plasma	Amitriptyline (0.02 mg/L) Nortriptyline (0.02 mg/L) Dothiepin (0.02 mg/L)	BS/CB/TOX/FT/4
Whole blood	Mirtazapine (0.01mg/L)	Waters TQSmicro with I class uPLC and in-house method BS/CB/TOX/FT/42
Whole blood or serum	Haloperidol (0.002mg/L) Chlorpromazine (0.002mg/L) Clozapine (0.002mg/L) Desmethylclozapine (0.002mg/L) Risperidone (0.002mg/L) 9OH risperidone (0.002mg/L) Quetapine 0.002mg/L)	Waters TQS micro with I class uPLC and in-house method BS/CB/TOX/FT/2
Whole blood (plain femoral)	Paracetamol (5mg/L)	Waters TQS micro with I class uPLC and in-house method BS/CB/TOX/FT/46



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd):	Documented procedures & manufacturer's equipment instructions in conjunction with documented in-house procedures:
Whole Blood (post mortem)	Qualitative analysis of targeted analytes (LOD) Amphetamine (0.01mg/L) Ketamine (0.01mg/L) MDA (0.01mg/L) MDMA (0.01mg/L) Methamphetamine (0.01mg/L) Chlorpromazine (0.01mg/L) Clozapine (0.01mg/L) Haloperidol (0.01mg/L) Mirtazapine (0.01mg/L) Quetiapine (0.01mg/L) Risperidone (0.02mg/L) Alprazolam (0.01mg/L) Chlordiazepoxide (0.01mg/L) Clonazepam (0.02mg/L) Desmethyldiazepam (0.02mg/L) Diazepam (0.01mg/L) Lorazepam (0.1mg/L) Midazolam (0.01mg/L) Nitrazepam (0.01mg/L) Oxazepam (0.02mg/L) Temazepam (0.02mg/L) Benzoyllecgonine (0.01mg/L) Cocaine (0.01mg/L) 6-monoacetylmorphine (0.01mg/L) Codeine (0.01mg/L) Dihydrocodeine (0.01mg/L) EDDP (0.01mg/L) Methadone (0.01mg/L) Morphine (0.01mg/L) Tramadol (0.01mg/L) Citalopram (0.01mg/L) Desmethylvenlafaxine (0.01mg/L) Fluoxetine (0.01mg/L) Paroxetine (0.01mg/L) Sertraline (0.01mg/L) Venlafaxine (0.01mg/L) Amitriptyline (0.01mg/L) Nortriptyline (0.01mg/L) Paracetamol (2mg/L)	
		Waters TQS Micro with I class uPLC and in house method BS/CB/TOX/FT/44



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Whole Blood	Lead	BS/CB/TOX/CT/41
Serum/Plasma	Copper	BS/CB/TOX/CT/40
Serum/Plasma	Zinc	BS/CB/TOX/CT/40
Serum/Plasma	Selenium	BS/CB/TOX/CT/40
Whole Blood	Cobalt	BS/CB/TOX/CT/46
Whole Blood	Chromium	BS/CB/TOX/CT/46
		Thermo Scientific 1310 Trace Gas Liquid Chromatograph and TRIRSH Autosampler, automated headspace gas liquid chromatography and in-house method:
Plasma/Whole Blood	Ethylene Glycol (LLOQ 50 mg/L)	BS/CB/TOX/CT/44
Urine, whole blood, serum	Ethanol (LLOQ 10 mg/100ml)	BS/CB/TOX/CT/45
Plasma/Whole blood	Methanol (LLOQ 50 mg/L)	BS/CB/TOX/CT/43



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd):	Documented procedures & manufacturer's equipment instructions in conjunction with documented in-house procedures: Documented -in-house methods to meet the requirements as defined in the 'NHS Fetal Anomaly Screening Programme: laboratory QA evidence requirements'
Serum	PAPP-A	BS/CB/TOX/DOWN/1 &4 Thermofisher Brahms Kryptor Immunoassay
Serum	free bHCG	BS/CB/TOX/DOWN/1&4 Thermofisher Brahms Kryptor Immunoassay
END		