

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



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Accredited to
ISO 15189: 2022

Royal Wolverhampton NHS Trust operating as Black Country Pathology Services

Issue No: 011 Issue date: 25 April 2025

City Hospital
Dudley Road
Birmingham
B18 7QH

Contact: Katy New
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E-Mail: katy.new@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
Address	Local contact	Toxicology	A
Laboratories City Hospital Dudley Road Birmingham B18 7QH	Katy New BCPS Quality Manager		
Laboratories Sandwell Hospital Lyndon West Bromwich B71 4HJ	As above	Special Biochemistry	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 BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis	Documented In-house methods using:	B
Serum and Urine	Osmolality	Vitech Scientific: Freezing point depression SOP: Serum and urine osmolality PROC-CB-F2.1-MAN/16	
Whole blood	HbA1c	Tosoh G8 HPLC System SOP: Tosoh G8 HPLC HbA1c PROC-CB-F2.1-MAN/45	
Urine	Urine Calculi	Thermo Nicolet iS5 by FTIR SOP: Stone analysis by FTIR Spectroscopy PROC-CB-F2.1-FTIR/01	
Urine	Oxalate	Ilab Aries: Spectrophotometer Quantification of Urinary Oxalate by Automated Spectrophotometer PROC-CB-F2.1FTIR/03 Chemistry Manuals 1300	
	Citrate	Quantification of Citrate in urine by Automated Spectrophotometer Chemistry - Manuals 1300	



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented In-house methods using:	B
Faeces	Quantification determination of Faecal Calprotectin	ELISA on DS2 Faecal Calprotectin analysis using the DS2 analyser Chemistry Manuals 424	
Serum	Adalimumab	Manual ELISA using the Thermo Plate reader and in house method Chem 492	
	Infliximab	Manual ELISA using in house method Chem 193	
Serum/Plasma	Serum/ Plasma Cholinesterase	Ilab Aries and in-house method Chem 915	



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented In-house methods using:	B
	Quantification determination of (cont'd)		
	Trace Metals	/Agilent 7700x/Thermo Fisher iCAPRQ by ICPMS	
Blood, serum, plasma, urine	Cobalt Chromium	Cobalt & chromium in whole blood & serum SPEC/SOP/TM/17 Cobalt, chromium, nickel & cadmium in urine SPEC/SOP/TM/40	
Blood/Urine	Lead Manganese Mercury Arsenic Cadmium Thallium Antimony Bismuth	Manganese, Lead, Cadmium, Arsenic and Thallium in whole blood SPEC/SOP/TM39 Mercury in whole blood & urine SPEC/SOP/TM/11 Manganese, arsenic, thallium & lead in urine SPEC/SOP/TM/10 Cobalt, chromium, nickel & cadmium in urine SPEC/SOP/TM/40	
Whole Blood	Barium Silver	Antimony, barium, bismuth, silver & strontium and nickel in whole blood and Nickel in serum SPEC/SOP/TM41	
Serum/Blood/Urine	Nickel	SPEC/SOP/TM41 SPEC/SOP/TM/40	
Plasma/Serum	Aluminium	Aluminium in plasma & serum (PROC-CB-TE/10)	



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented In-house methods using:	B
	Quantification determination of (cont'd)		
Serum/Urine/Plasma	Trace Metals (cont'd)	/Agilent 7700x/Thermo Fisher iCAPRQ by ICPMS	
	Copper	Copper, zinc and selenium in plasma & serum	B
	Selenium	SPEC/SOP/TM16	
	Zinc	SPEC/SOP/TM38	
Urine	Gallium	Selenium in urine	B
	Indium	PROC-CB-TE/42	
	Iron		
	Vitamins		B
Serum/Plasma	D2	Copper, zinc, selenium and iron in urine by ICP-MS	
	D3	SPEC/SOP/TM/38	
			B
Blood Spots	D2	Waters Acquity UPLC & Xevo/TQD LC MS-MS	
	D3	Measurement of 25-Hydroxy vitamin D	
		SPEC/SOP/VIT/-003	B
Serum/Plasma	Vitamin A	Waters Acquity UPLC & Xevo TQSMS	
	Vitamin E	LC MS-MS	
	β Carotene	Measurement of blood spot 25-Hydroxy vitamin D	B
		SPEC/SOP/VIT/005	
		Shimadzu Prominence HPLC	B
		Measurement of vitamin A, E and carotenes	
		SPEC/SOP/VIT/004	
Whole Blood	<u>Tacrolimus</u>	Waters Acquity/TQS LC MS-MS	B
	<u>Sirolimus</u>	SPEC/SOP/VIT/022	
	<u>Cyclosporin</u>		



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented In-house methods using:	
Whole Blood	<u>Tacrolimus</u> <u>Sirolimus</u> <u>Cyclosporin</u>	ABSciex 6500 LC MS-MS SPEC/SOP/VIT/024	B
Serum and plasma	<u>Testosterone</u> <u>Androstenedione</u> <u>17-hydroxy progesterone</u> <u>DHEAS</u>		
	TPMT		
Blood	Thiopurine methyl transferase (TPMT)	Shimadzu HPLC Measurement of whole blood TPMT activity SPEC/SOP/TPMT/15	A
	TPMT Genotyping	QIASymphony SP ARMS-PCR SYNGENE InGenius3 Extraction of DNA from whole blood using the QIA Symphony SPEC/SOP/TPMT/14 TPMT genotyping by ARMS-PCR SPEC/SOP/TPMT/17 Agarose gel electrophoresis for analysis of TPMT ARMS reaction products SPEC/SOP/TPMT/18	A



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented In-house methods using:	A
Blood	TPMT 6-thioguanine (TGN) 6-methylmercaptopurine nucleotides (6MMP)	Shimadzu Prominence HPLC Nexera UPLC Measurement of whole blood 6-TGN and 6-MMP nucleotides SPEC/SOP/TPMT/24	
	Red Cell count (RCC) Haematocrit (HCT)	Sysmex XN-1000 Measurement of Red Blood Cell counts SPEC/SOP/TPMT/9	
Faeces	Elastase	Schebo ELISA kit Measurement of Faecal Pancreatic Elastase SEPC/SOP/TPMT/16	



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented In-house methods using:	
	TMPT (cont'd)		
Blood	Uridine diphosphoglucose glucuronosyltransferase enzyme (UGT1A1) for Gilbert's syndrome	QIASymphony SP Real-Time PCR Extraction of DNA from whole blood using the QIASymphony SPEC/SOP/TPMT/14 Gilbert's syndrome: genotyping of UGT1A1 by Real-Time PCR SPEC/SOP/TPMT/21	A
	Quantification determination of		A
	Toxicology		
Blood	Levetiracetam	HPLC-DAD Dionex Target Absorption/RT Quantitative analysis of drugs in plasma by HPLC-DAD SPEC/SOP/TOX/83	
Blood	Amitriptyline Nortriptyline	HPLC-DAD Dionex Target Absorption/RT Quantitative analysis of drugs in plasma by HPLC-DAD	
Blood	Clozapine & norclozapine Lamotrigine	HPLC-UV Prominence Absorption maxima/RT Quantitative analysis of clozapine, norclozapine & lamotrigine by Shimadzu HPLC-UV SPEC/SOP/TOX/71	



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented In-house methods using:	A
	Quantification determination of (cont'd)		
	Toxicology (cont'd)		
Blood/Urine	Ethanol screening & confirmation Methanol screening	Shimadzu headspace- GC-FID Target ions Quantitative analysis of ethanol & methanol SPEC/SOP/TOX/81	
Blood	TDM: Quetiapine TDM: Olanzapine	Waters Aquity UPLC-MS/MS Semi-quantitative MRM Quantitative analysis of plasma Olanzapine & Quetiapine by Waters LC-MS/MS SPEC/SOP/TOX/85	
Blood	Ethylene glycol screening	Shimadzu GC 2020 plusGC-FID Target ions Quantitative analysis of ethylene glycol by Shimadzu GC-FIC SPEC/SOP/TOX/88	



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented In-house methods using:	A
Oral Fluid using Salivette Collection Device	Quantification determination of (cont'd)		
	Toxicology (cont'd)		
	Drugs of abuse screening: Morphine, Codeine Dihydrocodeine, 6MAM, Methadone EDDP Buprenorphine Norbuprenorphine Cocaine, Benzoyllecgonine Amphetamine Methamphetamine MDA, MDMA, Diazepam Nordiazepam Oxazepam Temazepam Lorazepam Thebaine Ketamine Tramadol Mephedrone, 4-MEC Ethylphenidate Methiopropamine Adamantyl-NOID	Waters Acquity UPLC-MS/MS Semi-quantitative MRM Analysis of Oral Fluid Drugs of Abuse by Waters LC-MS/MS SPEC/SOP/TOX/90	



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented In-house methods using:	A
Urine	Quantification determination of (cont'd) Toxicology (cont'd) Drugs of abuse screening: Morphine Codeine Dihydrocodeine 6MAM Methadone EDDP Buprenorphine Norbuprenorphine Benzoylcegonine Amphetamine Methamphetamine MDMA Diazepam Nordiazepam Oxazepam Temazepam Lorazepam Thebaine Ketamine N-desmethyltramadol Mephedrone Clonazepam Alprazolam Etizolam Zopiclone Pregabalin Gabapentin Mirtazapine Promethazine Quetiapine Fentanyl	Waters UPLC-MS/MS Semi-quantitative MRM Analysis of urine drugs of abuse by Waters LC-MS/MS SPEC/SOP/TOX/86	



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented In-house methods using:	A
	Quantification determination of (cont'd)		
	Toxicology (cont'd)		
Plasma and Urine	Detection and quantitation of synthetic cannabinoids:	Documented In-house methods using:	
	AMB-FUBINACA 5F-ADB 5F-MDMB-PICA 4F-MDMB-BINACA MDMB-4en-PINACA ADB-BUTINACA	Waters Acquity /Xevo TQD Micro UPLC MS-MS SPEC/SOP/TOX/37	



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented In-house methods using:	A
Urine	Quantification determination of (cont'd)		
	Toxicology (cont'd)		
	Drugs of Abuse Confirmation	Shimadzu QP2010 GC-MS Target Ions	
	Heroin metabolite 6-Monoacetylmorphine (6MAM)	Quantitative analysis of 6-MAM in urine by Shimadzu GC-MS SPEC/SOP/TOX/75	
	Benzodiazepines Diazepam Nordiazepam Temazepam Oxazepam Lorazepam	Quantitative analysis of Benzodiazepines: Diazepam, Nordiazepam, Oxazepam, Temazepam and Lorazepam in Urine by Shimadzu GC-MS SPEC/SOP/TOX/52	



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	Quantification determination of (cont'd)		
	Toxicology (cont'd)		
	Opiates Morphine Codeine Dihydrocodeine	Quantitative analysis of Opiates: Morphine, Codeine and Dihydrocodeine in Urine by Shimadzu GC-MS SPEC/SOP/TOX/76	
	Cannabis metabolite 11-nor-9-carboxy-delta-9-tetrahydrocannabinol (THC-COOH)	Quantitative Analysis of Cannabis Metabolite (11-nor-9-carboxy-delta-9-tetrahydrocannabinol, THC-COOH) in Urine by Shimadzu GC-MS SPEC/SOP/TOX/113	
		Waters Acquity LC-MS/MS Target Ions	
Urine	Cannabis metabolite 11-nor-9-carboxy-delta-9-tetrahydrocannabinol (THC-COOH)	Waters Acquity/Xevo TQD3 UPLC MS-MS SPEC/SOP/TOX/69	
Urine	Ethyl glucuronide (EtG) Ethyl sulphate (EtS)	Waters Acquity/Xevo TQD4 Micro UPLC MS-MS SPEC/SOP/TOX/117	
Whole Blood	Phosphatidylethanol (PEth)	Waters Acquity/Xevo TQD4 Micro UPLC MS-MS SPEC/SOP/TOX/118	
	Amphetamines Amphetamine Methamphetamine MDMA	Quantification of Amphetamine (amphetamine, methamphetamine, MDMA, MDA) Methadone, EDDP and Benzoylcegonine in urine by Waters LC-MS/MS SPEC/SOP/TOX/72	



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Urine (cont'd)	Toxicology (cont'd)		
	Drugs of Abuse Confirmation (cont'd)	Waters Acquity LC-MS/MS Target Ions	
	Methadone and metabolite Methadone EDDP		
	Cocaine metabolite Benzoylecgonine		
Biological material	Unknown toxicology screen: General drugs screen (positive electrospray) as per Waters (Masslynx 4.1 TOF TOX database 1)	Waters Xevo UPLC-MS/TOF Exact mass/RT Toxicology screening using the Waters Xevo G2 TOF: General drug screening method with positive electrospray SPEC/SOP/TOX/106	
	Unknown toxicology screen: General drugs screen (negative electrospray) as per Waters (Neg-ion-library-201115)	Toxicology screening using the Waters Xevo G2 TOF: General drug screening method with negative electrospray SPEC/SOP/TOX/107	
END			