


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL 8910</p> <p>Accredited to ISO 15189:2022</p>	University Hospitals Birmingham NHS Foundation Trust	
	Issue No: 025 Issue date: 26 March 2025	
	Department of Biochemistry Queen Elizabeth Hospital Mindelsohn Way Edgbaston Birmingham B15 2WB	Contact: Gary Bateman Tel: +44 (0)121 424 3402 E-Mail: Gary.Bateman@uhb.nhs.uk Website: http://www.uhb.nhs.uk/
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 Birmingham Heartlands Hospital Bordesley Green Road Bordesley Green East Birmingham B9 5SS	Local contact Louise Fallon Tel: +44 (0)121 424 1235	Clinical Biochemistry Toxicology Immunology Molecular Biology Serology Examination
Address Good Hope Hospital Rectory Rd, Sutton Coldfield, B75 7RR	Local contact Louise Fallon Tel: +44 (0)121 424 1235	Clinical Biochemistry
Address UKHSA Birmingham Heartlands Hospital Bordesley Green Road Bordesley Green East Birmingham B9 5SS	Local contact Caroline McKeon Tel: +44 (0)121 424 3111	Serology pre and post examination processes
Address Queen Elizabeth Hospital Mindelsohn Way Edgbaston Birmingham B15 2WB	Local contact Louise Fallon Tel: +44 (0)121 424 1235	Clinical Biochemistry



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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 / TISSUE	<u>Biochemistry examination activities for the purposes of clinical diagnosis:</u> <u>Quantitative determination of:</u>	Documented In-house Methods and Manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS S201 for Abbott Alinity analysers	
Serum/Plasma Serum	Alpha-Feto Protein (AFP) aFP	CITS.I002	A E
Serum/Plasma Serum	Alanine Aminotransferase (ALT) ALT	CITS.I005	A, B, E
Serum/Plasma Serum/Urine	Albumin	CITS.I003	A, B, E
Fluid	Albumin	CITS.I003	A
Serum/Plasma Serum	Alkaline Phosphatase (ALP) ALP	CITS.I004	A, B, E
Serum/Plasma Serum	Amikacin Amikacin		A E



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Plasma	Ammonia	CITS.I006	A
Serum/Plasma	Amylase	CITS.I007	A, B,
Serum	Amylase		E
Fluid	Amylase	CITS.I007	A
Urine	Amylase	CITS.I007	A
EDTA Plasma	Ammonia PTH		E E
EDTA Plasma	Renin	IDS_iSYS Analyser, Chemiluminescence immunoassay CEN_S085	E



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Biochemistry examination activities for the purposes of clinical diagnosis:</u>		
	<u>Quantitative determination of:</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers:	
Serum	Angiotensin Converting Enzyme (ACE)	CIT.I282	A
Serum/Plasma	Aspartate Transaminase (AST)	CITS.I008	A, B
Serum	AST		E
Serum/Plasma	Beta HCG	CITS.I009	A, B,
Serum/Plasma	Bicarbonate	CITS.I020	A, B,
Serum	Bile Acids	CIT.I320	A, B
Serum/Plasma	CA 15-3	CITS.I011	A
Serum/Plasma	CA-125	CITS.I013	A
Serum/Plasma	Calcium	CITS.I015	A, B,
Urine	Calcium	CITS.I015	A, E
Faeces	Calprotectin	CIT.S890	A
Faeces	Calprotectin	Buhlmann fCal Turbo kit on Abbott Alinity C unit analyser. CSA_S067	E



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	<u>Quantitative determination of:</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers:	
Serum	Calcium Carbamazepine		E E
Serum/Plasma	Carcinoembryonic Antigen (CEA)	CITS.I016	A
Serum	CEA		E
Serum/Plasma/	Chloride	CIT.I323	A, B
Urine	Chloride	CIT.I501	A, B
Serum/plasma	Cholesterol	CITS.I017	A, B
Serum	Cholesterol		E
Fluid	Cholesterol	CITS.I017	A
Serum/Plasma	Conjugated Bilirubin (Synermed reagents)	CIT.I061	A, B
Serum/Plasma	Cortisol	CITS.I022	A, B
Serum	Cortisol Creatine kinase Creatinine CRP DHAS		E E E E E



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	<u>Quantitative determination of:</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers:	
Serum/Plasma	C-reactive protein (CRP)	CITS.I021	A, B,
Serum/Plasma	Creatine Kinase (CK)	CITS.I019	A, B,
Serum/Plasma	Creatinine (Enzymatic)	CITS.I023	A, B,
Fluid	Creatinine (Enzymatic)	CITS.I023	A
Serum/Lithium Heparin Plasma	Chloride		E



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	<u>Quantitative determination of:</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers:	
Urine	Creatinine (Enzymatic)	CITS.I023	A, E
Serum/Plasma	Digoxin	CITS.I025	A, B
Serum	Digoxin		E
Serum/Plasma	Ethanol	CITS.I028	A
Plasma	Ethanol		E
Serum/Plasma	Ferritin	CITS.I029	A, B,
Serum	Ferritin		E
Serum/Plasma	Folate	CITS.I030	A, B
Serum	Folate		E
	Free T3		E
	Free T4		E
	Fructosamine		E



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	<u>Quantitative determination of:</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers:	
Serum/Plasma	Follicle Stimulating Hormone (FSH)	CITS.I032	A, B
Serum	FSH GGT		E E
Serum/Plasma	Free Thyroxine (FT4)	CITS.I034	A, B,
Serum/Plasma	Free Triiodothyronine (FT3)	CITS.I033	A, B
Serum/Plasma	Gamma G.T. (GGT)	CITS.I037	A, B
Serum/Plasma	Gentamicin (GENT)	CITS.I035	A
Serum	Gentamycin		E



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	<u>Quantitative determination of:</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers:	
CSF	Glucose	CITS.I038	A, E
Serum/Plasma	Glucose	CITS.I038	A, B,
Plasma	Glucose		E
Fluid	Glucose	CITS.I038	A
Serum/Plasma	Haptoglobin	CITS.I036	A
Serum	Haptoglobin		E
	β -hCG		E
Serum/Plasma	High Density Lipoprotein (HDL)	CITS.I039	A, B
Serum	HDL		E



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Biochemistry examination activities for the purposes of clinical diagnosis:</u> <u>Quantitative determination of:</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers:	
Serum/Plasma	hs-Troponin I	CITS.I065	A, B, E
Plasma	Insulin		E
Serum/Plasma	Iron	CITS.I040	A, B,
Serum	Iron		E
Plasma	Lactate	CITS.S089 CIT.I327	A B
CSF	Lactate	CITS.S089 CIT.I327	A B
Serum/Plasma	Lactate Dehydrogenase (LDH)	CITS.I041	A



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	<u>Quantitative determination of:</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers:	
Fluid	Lactate Dehydrogenase (LDH)	CITS.I041	A
Serum Serum	LDH LDL		E E
Serum/Plasma	Lipoprotein (a) (Lp(a))	CIT.I283	A
Serum/Plasma	Lithium	CITS.I043	A, B
Serum	Lithium		E
Serum/Plasma	Luteinising Hormone (LH)	CITS.I042	A, B
Serum	LH		E
Serum/Plasma	Monomeric Prolactin (Investigation of Macroprolactin)	CIT.S200	A
Serum/Plasma	Magnesium	CITS.I044	A, B
Serum	Magnesium Methotrexate NTproBNP Oestradiol		E E E E



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	<u>Quantitative determination of:</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers:	
Urine	Magnesium	CITS.I044	A
Urine	Microalbumin		A
Serum/Plasma	NT-ProBNP (BNP)	CITS.I046	A
Serum/Plasma	Oestradiol	CITS.I027	A
Serum/Plasma	Paracetamol	CIT.I203	A, B
Serum	Paracetamol		E
Serum/Lithium Heparin Plasma		IDS_iSYS Analyser, Sandwich Immunoassay, CEN_S084	E
	Human Growth Hormone (hGH)	Chemiluminescence immunoassay CEN_S089	E
	Insulin-like Growth Factor 1 Assay	Chemiluminescence immunoassay CEN_S083	E
	Insulin-like Growth Factor BP3 Assay	Chemiluminescence immunoassay CEN_S086	E



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	<u>Quantitative determination of:</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers:	
Serum/Plasma	Parathyroid Hormone (PTH)	CITS.I054	A
Serum/Plasma	Phenytoin	CITS.I048	A
Serum	Phenytoin		E
Serum/Plasma	Phosphate	CITS.I049	A, B
Serum	Phosphate		E
Urine	Phosphate	CITS.I049	A, E
Serum/Plasma	Potassium	CIT.I501	A, B
Serum	Potassium		E
Urine	Potassium	CIT.I501	A, B, E
Serum	Procalcitonin	CITS.S076	A
Serum/Plasma	Progesterone	CITS.I050	A, B
Serum	Progesterone		E



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	<u>Quantitative determination of:</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers:	
Serum/Plasma	Prolactin	CITS.I051	A, B
Serum	Prolactin		E
Serum/Plasma	Prostate Specific Antigen (PSA)	CITS.I053	A, B
Serum	PSA		E
Serum/Plasma	Salicylate	CITS.I055	A, B
Serum	Salicylate		E



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Serum/Plasma	Sex Hormone Binding Globulin (SHBG).	CITS.I056	A
Serum	SHBG		E
Serum/Plasma	Sodium	CIT.I501	A, B
Urine	Sodium	CIT.I50	A, B, E
Serum/Plasma	Testosterone (Male)	CIT.I332	A
Serum	Male Serum Testosterone		E
Serum/Plasma	Theophylline	CITS.I058	A, B
Serum	Theophylline		E
Serum	Total CO2		E
	Thyroglobulin		E
	Thyroglobulin Ab		E
	Total protein		E
	Transferrin		E
	Triglycerides		E



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Biochemistry examination activities for the purposes of clinical diagnosis:</u>		
	<u>Quantitative determination of:</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers:	
Serum/Plasma	Thyroid Stimulating Hormone (TSH)	CITS.I062	A, B
Serum	TSH		E
Serum/Plasma	Tobramycin	CIT.I340	A
Serum/Plasma	Total Bilirubin	CITS.I010	A, B
Fluid	Bilirubin	CITS.I010	A
Serum/Plasma	Total Protein	CIT.I341	A, B
CSF	Total Protein		E



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	<u>Quantitative determination of:</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers:	
Urine	Total Protein	CITS.I059	A, B, E
CSF	Total Protein	CITS.I059	A
Fluid	Total protein	CIT.I341	A
Serum/Plasma	Triglycerides	CITS.I061	A, B
Fluid	Triglycerides	CITS.I061	A
Serum/plasma	Transferrin	CITS.I060	A
Serum/Plasma	Urate	CITS.I067	A, B
Serum	Urate		E
Urine	Urate	CITS.I06	A
Serum/Plasma	Urea	CITS.I066	A, B
Serum	Urea		E
Urine	Urea	CITS.I066	A, E
Fluid	Urea	CITS.I066	A



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	<u>Quantitative determination of;</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers:	
Serum/Plasma	Vancomycin	CIT.S2021, CITS.I068	A
Serum	Vancomycin		E
Serum/Plasma	Valproate	CIT.I330	A
Serum/Plasma	Vitamin B12	CITS.I063	A, B
Serum	B12		E
	Bilirubin (Direct)		E
	Bilirubin (Total)		E
	CA125		E
	CA153		E
	CA199		E
	Caeruloplasmin		E
Plasma	C-Peptide		E
Serum/plasma	25 – hydroxyvitamin D	CITS.I064	A
			B
Serum	25-OH Vitamin D		E



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Biochemistry examination activities for the purposes of clinical diagnosis:</u>		
Serum/Plasma/urine	Osmolality	Documented In-house Methods and Manufacturer's instructions for Advanced Instruments OSMO 1	A, B
Serum/Urine	Osmolality	CITS.S205	E
Serum/Plasma	Sodium (Direct ISE)	Direct Ion Selective Electrode Principle – Abbott i-STAT Alinity CITS.S203	A, B
Urine	Urinary metanephrines Metanephrine, 3MT - 3-methoxytyramine	CIT.S455	A
Plasma	Homocysteine	CIT.S585	A



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Biochemistry examination activities for the purposes of clinical diagnosis:</u>	Documented In-house Methods and Manufacturer's instructions:	
Serum/ Plasma	Prednisolone Prednisolone, Prednisone, Cortisol and Cortisone, Dexamethasone	API 5000 Tandem Mass Spectrometer: CIT.S1066	A
Serum/ Plasma	Urinary cortisol	CIT.S1044	A
CSF	Xanthochromia	Documented In-house Methods and Manufacturer's instructions for Northstar Scientific UVICON Spectrophotometer CIT.S077 Northstar Scientific UVIKON XS spectrophotometer Spectrophotometric scan CSA_S002	A E
Serum	Alpha Subunits (ASU)	Radioimmunoassay (Wallac/LKB Multigamma counter) CEN_S082	E
Urine	Urinary 5HIAA	Documented In-house Methods and Manufacturer's instructions for LCTMS Sciex 6500Q Tandem Mass Spectrometer: Chromsystems kit CIT.S1060	A
Plasma	Metanephrines	CIT.S1020	A
Urine	Urinary Free Catecholamines Noradrenaline, Adrenaline and Dopamine	Biotage Automated SPE platform, Shimadzu HPLC System, Applied Biosystems Sciex API 6500 MS/MS with specific reference to CIT.S1004	A
Blood	Thiopurine metabolites	Documented In-house Methods and Manufacturer's instructions Shimadzu HPLC System, Applied Biosystems Sciex API 6500 MS/MS with specific reference to CIT.S250	A



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Serum/Plasma	TPMT – phenotype	Documented In-house Methods and Manufacturer's instructions for Shimadzu HPLC:	A
Serum	Vitamin A and E	CIT.S1008	A
Serum	Vitamin E:Cholesterol ratio Derived test based on ratio of Vitamin E to Cholesterol	CIT.S1450	A
Serum	Vitamin E:Cholesterol ratio Derived test based on ratio of Vitamin E to Cholesterol	Vitamin E-HPLC with florescence detection: CIT.S049	A
Sweat	Sodium Chloride	Documented In-house Methods and Manufacturer's instructions ICP/MS: CIT.S1001, CIT.S2008	A
Serum/Plasma	Non-HDL Cholesterol	Derived Tests in Clinical Chemistry: CIT.S049	A, B
Serum/Plasma	Free Testosterone	CIT.S049	A, B
Urine	Albumin: Creatinine Ratio		A,B, E
Serum/Plasma	Corrected Calcium	CIT.S049	A,B
Serum/Plasma	Globulins	CIT.S049	A,B



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Biochemistry examination activities for the purposes of clinical diagnosis:</u>	Derived Tests in Clinical Chemistry:	
Serum/Plasma	Glomerular Filtration Rate (GFR)	CIT.S049	A ,B
Serum/Plasma	LDL-Cholesterol	CIT.I045 CIT.I145 CIT.S049	A, B
Urine	Protein: Creatinine ratio	CIT.I161 CIT.S049	A
Serum/Plasma	Acute Kidney Injury	CIT.S049	A, B
Serum/Plasma	Albumin: Globulin Ratio	CIT.S049	A, B
	<u>Biochemistry (toxicology) examination activities for the purposes of clinical diagnosis:</u>		
Serum, Plasma, Blood, Urine	Quantitative measurement of the following elements:	Documented In-house Methods and Manufacturer's instructions for Thermo Fisher Scientific iCAP Q ICP-MS: CIT.S2008	A
	Aluminium		
	Arsenic		
	Cadmium		



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Biochemistry (toxicology) examination activities for the purposes of clinical diagnosis:</u>		
Serum, Plasma, Blood, Urine	Chromium Cobalt Copper Lead Manganese Selenium Zinc	Documented In-house Methods and Manufacturer's instructions for Thermo Fisher Scientific iCAP Q ICP-MS.CIT.S2008	A
Sweat	Quantitative measurement of Sodium and Chloride	Thermo Fisher Scientific iCAP Q ICP-MS CIT.S1001	A
Urine	Opiates - Morphine, Codeine, Dihydrocodeine & 6-monoacetyl morphine (6MAM)	Documented In-house Methods and Manufacturer's instructions for Shimadzu HPLC System and Applied Biosystems Sciex 4000 MS-MS (Tandem Mass Spectrophotometer) CIT.S2017	A
Urine	Targeted drugs of abuse screen in urine. The method will detect the following compounds: Opioids - Methadone and metabolite EDDP), Buprenorphine and metabolite (norbuprenorphine) Amphetamines – Amphetamine (Amfetamine)	Documented In-house Methods and Manufacturer's instructions for API 4000 (Tandem Mass Spectrophotometer) CIT.S2017	A



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Biochemistry (toxicology) examination activities for the purposes of clinical diagnosis:</u>	Documented In-house Methods and Manufacturer's instructions for API 4000 (Tandem Mass Spectrophotometer) CIT.S2017:	A
Urine	Methamphetamine (Metamfetamine), MDA, MDMA & MDEA Benzodiazepines – Diazepam and metabolite (nordiazepam), oxazepam, temazepam, lorazepam, nitrazepam & midazolam Designer drugs - Benzyloperazine (BZP), MDPV (bath salts), 4-Methylethcathinone (4-MEC, NRG), 4-Methylmethcathinone (Mephedrone, Meow Meow) Other drugs - Cocaine and metabolite (benzoylecgonine), Ketamine, Cannabis metabolite (11-nor-9-carboxy-tetrahydrocannabinol)		
Urine	Ethyl Glucuronide Ethyl Sulfate	LC-MS/MS HPLC – Shimadzu quaternary gradient HPLC system with switching valve Tandem Mass Spectrometer – Applied Biosystems 4500 Triple Quad Tandem Mass Spectrometer CIT.S3001	A



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<p>HUMAN BODY FLUIDS / TISSUE (CONT'D)</p> <p>Blood, Plasma, Serum, Urine</p>	<p><u>Biochemistry (toxicology) examination activities for the purposes of clinical diagnosis:</u></p> <p><u>Presumptive screening and confirmation for the presence of drugs from the following drug classes:</u></p> <p>ACE inhibitors Amfetamines (including MDMA and related drugs) Angiotensin II Receptor Antagonists (ARBs) Alpha receptor agonists Antibiotics Antidepressants (tricyclics, tetracyclics, SARIs, SSRIs, SSNRIs) Antiepileptics Antifungals Antihistamines Antipsychotics (typical and atypical) Anti-retrovirals Alpha Blockers, Beta Blockers Barbiturates Benzodiazepines Bronchodilators Calcium Channel blockers Cocaine Diuretics Dissociatives Fentanyl and fentanyl analogues Gabapentinoids Glucocorticoids Hypnotics Ketamine Metformin Non-steroidal anti-inflammatory drugs</p>	<p>Documented methods and manufactures instructions for Liquid Chromatography Quadrupole Time of Flight Mass Spectrometry (LC-QToF MS) using Waters Acquity UPLC with Waters Xevo G2-XS QToF (CIT.S2023)</p> <p>Flexible scope for LC-QToF MS limited to the application of additional drugs boundaried within the named classes in accordance with documented in-house procedure GEN.S003</p> <p>The verified scope of the screens is identified within laboratory controlled Waters Toxicology Library</p>	<p>A</p>



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Biochemistry (toxicology) examination activities for the purposes of clinical diagnosis:</u>	Documented methods and manufactures instructions for Liquid Chromatography Quadrupole Time of Flight Mass Spectrometry (LC-QToF MS) using Waters Acquity UPLC with Waters Xevo G2-XS QToF (CIT.S2023)	A
Blood, Plasma, Serum, Urine	<u>Presumptive screening and confirmation for the presence of drugs from the following drug classes (cont'd):</u> Novel psychoactive substances Opiates Opioids Paracetamol Psychedelics Renin Inhibitors Salicylates Statins Stimulants Sulphonylureas Synthetic Cannabinoids THC and related compounds Z-drugs	Flexible scope for LC-QToF MS limited to the application of additional drugs boundaried within the named classes in accordance with documented in-house procedure GEN.S003 The verified scope of the screens is identified within laboratory-controlled Waters Toxicology Library	
Urine only	Presumptive screening and confirmation of cardiovascular disease modifying drugs from the following drug classes: ACE inhibitors Angiotensin II Receptor Antagonists (ARBs) Alpha receptor agonists Alpha Blockers, Beta Blockers Calcium Channel blockers Diuretics Metformin Renin Inhibitors Statins Sulphonylureas	Flexible scope for LC-QToF MS limited to the application of additional drugs boundaried within the named classes in accordance with documented in-house procedure GEN.S003 The verified scope of the screens is identified within laboratory-controlled Waters Toxicology Library	A



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<p>HUMAN BODY FLUIDS / TISSUE (CONT'D)</p> <p>Blood, serum, urine</p>	<p><u>Biochemistry (toxicology) examination activities for the purposes of clinical diagnosis:</u></p> <p>Quantitative measurement of:</p> <p>Amphetamine</p> <p>Benzodiazepine Quantitation (Diazepam, Nordiazepam, Oxazepam and Temazepam)</p> <p>Citalopram & Desmethylcitalopram</p> <p>Clozapine</p> <p>Codeine</p> <p>Cocaine & Benzoyllecgonine</p> <p>Cotinine</p> <p>Dihydrocodeine</p> <p>Duloxetine</p> <p>Fluoxetine</p> <p>Gabapentin</p> <p>MDMA / MDA</p> <p>Methadone</p> <p>Midazolam</p> <p>Mirtazapine</p> <p>Oxycodone</p> <p>Olanzapine</p> <p>Paroxetine</p>	<p>Documented In-house Methods and Manufacturer's instructions for Shimadzu HPLC System and Applied Biosystems Sciex 4000 (LC-MS/MS Tandem Mass Spectrometer) CIT.S2025:</p>	<p>A</p>



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Biochemistry (toxicology) examination activities for the purposes of clinical diagnosis:</u>		
Blood, serum, urine	Quantitative measurement of: Pregabalin Quetiapine Risperidone & 9hydroxy risperidone Sertraline, Valproate Venlafaxine / ODV	Documented In-house Methods and Manufacturer's instructions for API 4000 ((LC-MS/MS Tandem Mass Spectrometer) CIT.S2025	A
Blood, Plasma, Serum, Tissues	Fentanyl Buprenorphine & Norbuprenorphine	CIT.S2025	
Blood, Plasma, Serum, Tissues	Morphine and glucuronide metabolites	CIT.S2019	
Blood, urine	Ethanol, Methanol, Acetone	Documented In-house Methods and Manufacturer's instructions for Thermo Trace 1300 GC-HS with Flame Ionisation Detector : CIT.S2009	A
Blood, Plasma, Serum	Ethylene and Diethylene Glycol	Documented In-house Methods and Manufacturer's instructions for Thermo Trace 1300 Gas Chromatograph and ISQ LT Single Quadrupole Mass Spectrometer : CIT.S2006	A
Blood, Urine	BHB and GHB	Documented In-house Methods and Manufacturer's instructions for Thermo Trace 1300 Gas Chromatograph and ISQ LT Single Quadrupole Mass Spectrometer GC-MS: CIT.S2006	A
Blood, Plasma, Serum	Levetiracetam	Documented In-house Methods and Manufacturer's instructions for Thermo Trace 1300 Gas Chromatograph and ISQ LT Single Quadrupole Mass Spectrometer: CIT.S2010	A



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Immunology examination activities for the purposes of clinical diagnosis:</u>	Documented in-house methods and manufacturer's instructions for Abbott Chemistry and with specific reference to: CITS.S200 and CITS.S201 for Abbott Alinity analysers.	
Serum/plasma	Alpha-1-antitrypsin	CITS.I001	A
Serum/Plasma	Anti-thyroid TPO aCIT.	CIT.I337	A
Serum/Plasma	B2-microglobulin	CIT.I319	A
Serum/Plasma	Complement C3	CIT.I321	A
Serum/Plasma	Complement C4	CIT.I322	A
Serum/Plasma	IgA	CIT.I324	A, B
Serum/Plasma	IgM	CIT.I326	A, B
Serum/Plasma	IgG	CIT.I325	A, B
Serum/Plasma	Rheumatoid Factor	CIT.I329	A, B



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Immunology examination activities for the purposes of clinical diagnosis:</u>	Documented In-house Methods and Manufacturer's instructions:	
Serum	Free Light Chains (Kappa & Lambda)	Binding Site Optilite Turbidimeter: CIT.S206	A
Serum	IgG Subclasses (IgG, IgG1, IgG2, IgG3, IgG4)	CIT.S207	A
Serum/plasma	C1 Esterase Inhibitor (CIN)	CIT.S205	A
Serum	CH50	CIT.S1978	A
Whole blood	Lymphocyte proliferation studies using the following stimuli to measure cell proliferation by incorporation of ³ H thymidine. To evaluate T-lymphocyte function.	Documented In-house Methods and Manufacturer's instructions for Packard Tri-Carb 2700 Beta Counter: CIT.S1695:	A
	Candida albicans (CAND)		
	Anti-CD3 (OKT3)		
	Phytohaemagglutinin (PHA)		
	Purified protein derivation of M		
	Tuberculin (PPD)		
	Pokeweed mitogen (PWM)		
	Tetanus toxoid (TET)		
	Varicella zoster virus (VZV)		



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Immunology examination activities for the purposes of clinical diagnosis (cont'd):</u>		
Serum/plasma		Documented In-house Methods and Manufacturer's instructions for Dynex DS2 Automated ELISA analyser -CIT.S163 and:	A
Serum	ACRA -Acetylcholine Receptor Antibody	CIT.S1225	
	Intrinsic factor antibodies (IFAB)	CIT.S1513	
	Haemophilus influenza type B antibodies (HIBAB)	CIT.S147	
	Pneumococcal antibodies (PNEUAB)	CIT.S148	
Serum	PLA2 receptor antibodies	CIT.S1125	
Plasma	Quantiferon TB Plus (QFTPL)	CIT.S1696	
Serum/plasma	Salmonella typhii antibody quantification	CIT.S1148	
	Tetanus antibodies (TETAB)	CIT.S149	
Plasma/serum	GAD antibodies	CIT.S1514	A
		Documented In-house Methods and Manufacturer's instructions for manual ELISA	
Whole blood	TB TSpot. Elispot to measure Interferon gamma production by TB antigens in investigation of latent TB.	Elispot to measure Interferon gamma production by TB antigens CIT.S1691	A



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Immunology examination activities for the purposes of clinical diagnosis (cont'd):</u>		
Whole blood	Cell marker analysis for diagnosis and monitoring of Immunodeficiency: EUROClass B cell panel Duraclone TBNK, TCR Duraclone Extended T cell panel (including MHC ABC and DR, CD45 Ra and Ro) NK cell markers, MHC ABC and DR, CD45 Ra and Ro Leucocyte adhesion deficiency markers	Documented In-house Methods and Manufacturer's instructions for Beckman Coulter Navios Flow Cytometer using Duraclone tubes: CIT.S1698 CIT.S1681 CIT. S1683 CIT.S1624	A
Whole blood	Neutrophil respiratory burst – reactive oxygen metabolites	Exbio FagoFlowEx Kit CIT.S1627	A
Whole blood	Cell marker analysis for diagnosis and monitoring of Immunodeficiency: T cell markers B cell markers NK cell markers	Documented In-house Methods and Manufacturer's instructions Beckman Aquios flow cytometer with specific reference to:CIT.S1640	A
Whole Blood	CD62 Ligand shedding for assessment of Toll-like receptor signalling pathways	Documented In-house Methods and Manufacturer's instructions for Navios Flow Cytometer – Beckman Coulter: CIT.S1697	A



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<p>HUMAN BODY FLUIDS / TISSUE (CONT'D)</p> <p>Serum</p>	<p><u>Immunology examination activities for the purposes of clinical diagnosis (cont'd):</u></p> <p>Anti-Cardiolipin antibodies (IgG+IgM)</p> <p>Anti-Beta2glycoprotein antibodies (IgG+IgM)</p> <p>Specific IgG to Aspergillus (ASPG)</p> <p>Specific IgG to Avian (budgerigar and pigeon) (AVG)</p> <p>Anti-Cyclic citrullinated peptide antibodies (CCP)</p> <p>Anti-Double stranded DNA antibodies (DNA)</p> <p>Anti-Extractable nuclear antigen antibody screen (ENAS)</p> <p>Anti-Extractable nuclear antigen antibody typing (Ro, La, SmDP, RNP, Jo-1 and Scl-70) (ENAT)</p> <p>Anti-Glomerular basement membrane antibody (GBM)</p>	<p>Documented In-house Methods and Manufacturer's instructions for Phadia Immunocap 250: CIT.S1512</p>	<p>A</p>



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<p>HUMAN BODY FLUIDS / TISSUE (CONT'D)</p> <p>Serum</p>	<p><u>Immunology examination activities for the purposes of clinical diagnosis (cont'd):</u></p> <p>Specific IgG to M.faeni (MFG)</p> <p>Anti-Myeloperoxidase antibodies (MPOS)</p> <p>Anti-Proteinase 3 antibodies (PR3S)</p> <p>Specific IgE - Various</p> <p>Total IgE Mast cell Tryptase</p> <p>Anti-Tissue transglutaminase IgA antibodies (TTGA)</p> <p>Anti-Tissue transglutaminase IgG antibodies (TTGG)</p>	<p>Documented In-house Methods and Manufacturer's instructions for Phadia Immunocap 250: CIT.S1512</p>	<p>A</p>



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Immunology examination activities for the purposes of clinical diagnosis (cont'd):</u>	Documented In-house Methods and Manufacturer's instructions for immunofluorescence using QL 3000 Quantalyser slide staining workstation UV microscope and QUANTALink reporting software: CIT.S1515, CIT.S100, CIT.S104	A
Serum/plasma	Anti-nuclear antibodies (ANA)		
	Anti-neutrophil cytoplasmic antibodies (ANCA)		
	Anti-gastric parietal cell antibodies (GPC)		
	Anti-smooth muscle cell antibodies (SM)		
	Anti-mitochondrial antibodies (MT)		
	Anti-liver,kidney,microsomal antibodies (LKM)		
Serum/plasma	Anti-endomysial antibodies (ENDO)	Documented In-house Methods and Manufacturer's instructions for Manual Indirect Immunofluorescence and use of Zeiss Imager Z2 UV microscope: CIT.S1581	A
	Anti-dsDNA antibodies utilising crithidia lucilliae (CRITH)		
	Anti-adrenal antibodies (ADR) Anti-epidermal antibodies (EPI) Anti-neuronal antibodies screen (NEURO) Anti-pancreatic islet cell antibodies (PIC)		
Blood	Detection of myositis IgG antibodies Detection IgG antibodies for autoimmune liver disease.	Immunoblot using EUROLINE Myositis Antigens Profile and EUROLINE Autoimmune Liver disease profile. CIT.S165	A



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Immunology examination activities for the purposes of clinical diagnosis (cont'd):</u>	Documented In-house Methods and Manufacturer's instructions for Sebia Capillarys 3 and Hydrasys instruments:	A
Urine	Bence-Jones protein (BJP)	CIT.S109	
Serum	Paraprotein densitometry (DEN)		
Serum	Protein electrophoresis (EL)	CIT.S109	
Serum/ urine	Immunofixation (IFIX and IFIXU)	CIT.S109 CIT.S108	A
Serum	Alpha-1-antitrypsin phenotyping (PI)	CIT.S1961	A
CSF	CSF Oligoclonal bands (OLIGO)	CIT.S1703	A
Serum/plasma	Cryoprotein Identification, classification and quantification	CIT.S1563	A
	Derived Tests in Immunology:		
Serum/Plasma	Kappa:Lambda Ratio (derived from free light chains)	CIT.S049	A



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HUMAN BODY FLUIDS / TISSUE (CONT'D)	<u>Molecular (Chemistry) examination activities for the purposes of clinical diagnosis:</u>		
Whole blood	TPMT- genotype	Documented In-house Methods and Manufacturer's instructions for Step-One RT-PCR (PCR – Allelic discrimination methods): CIT.S1014	A, D
Serum	<u>Serological examination activities for the purposes of clinical diagnosis:</u>	Abbott Alinity Analyser using CMIA methodology – Examination phase only: CIT.S200	A
	Cytomegalovirus IgG	Documented in-house methods to meet the requirements of the IDPS screening programme as defined in the NHS Infectious diseases in pregnancy screening: laboratory quality assurance evidence requirements (relevant targets marked *)	A
	Cytomegalovirus IgM		A
	Hepatitis A IgG		A
	Hepatitis A IgM		A
	Hepatitis B Surface Antibody		A
	Hepatitis B Surface Antigen Confirmation*		A
	Hepatitis B core IgM*		A
	Hepatitis B core Antibody*		A
	Hepatitis B e Antibody*		A
	Hepatitis B e Antigen*		A
	Rubella IgG		A
	Rubella IgM		A
	Toxoplasma IgG		A



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<p>HUMAN BODY FLUIDS / TISSUE (CONT'D)</p> <p>Serum</p>	<p><u>Serological examination activities for the purposes of clinical diagnosis:</u></p> <p>Toxoplasma IgM</p> <p>Hepatitis B Surface Antigen Screen*</p> <p>Hepatitis C Antibody Screen</p> <p>HIV 1/2 Antigen/Antibody Screen*</p> <p>Antibody to Treponema Pallidum (Syphilis)*</p>	<p>Abbott Alinity Analyser using CMIA methodology – Examination phase only: CIT.S600, CIT.S200</p> <p>Documented in-house methods to meet the requirements of the IDPS screening programme as defined in the NHS Infectious diseases in pregnancy screening: laboratory quality assurance evidence requirements. <i>An asterisk shall be used to identify the tests which form part of the ANNB programme</i></p>	<p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p>



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purposes of clinical diagnosis:(cont'd)	In house documented procedures based on equipment manuals and standard methods as specified below: Documented in-house methods and manufacturer's operating instructions for as specified to support clinical diagnosis:	E
Serum	Sodium	CITS.S203 Testing of Direct Sodium using the Abbott iSTAT LC/MS/MS Sciex 6500 Triple Quad with Shimadzu LC analyser	E E
Serum/EDTA Plasma	Aldosterone	CCH_S020	E
EDTA Whole Blood	Immunosuppressants: Sirolimus; Everolimus, Tacrolimus; cyclosporin	CCH_S002	E
Serum	Lyso GB3	CCH_S027	E
Serum/Lith Hep Plasma	Steroid profile: Testosterone, 17-OH-Progesterone; D4 Androstenedione	CCH_S024	E
Saliva	Salivary Cortisol	CCH-S008	E
Urine	Urine pH	pH meter CEN_S079	E



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purposes of clinical diagnosis:(cont'd)	In house documented procedures based on equipment manuals and standard methods as specified below: Documented in-house methods and manufacturer's operating instructions for as specified to support clinical diagnosis:	E
Results from above	Derived Calculations:	CITS.V069	E
	Albumin to Creatinine Ratio ACR (U)		E
	Calcium - Adjusted		E
	Calcium Excretion (Urine collection, 24hr)		E
	Creatinine Excretion (Urine collection, 24hr)		E
	Creatinine Clearance		E
	Globulin		E
	LDL-Cholesterol		E
	Phosphate Excretion (24hr urine collection)		
	Potassium Excretion (Urine Collection 24hr)		E
	Sodium Excretion (24hr urine collection)		E
Results from above	Derived Calculations:	CITS.V069	E
	Transferrin Saturation		E
	Urea Excretion (Urine Collection, 24hr)		E
END			