


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>Accredited to ISO 15189:2012</p>	<h3>Viapath Analytics LLP</h3> <p>Issue No: 009 Issue date: 28 March 2022</p>	
	<p><b>Biochemistry</b>  <b>Blood Sciences Laboratory</b>  <b>Ground Floor Bessemer Wing</b>  <b>King's College Hospital</b>  <b>Denmark Hill</b>  <b>London</b>  <b>SE5 9RS</b></p>	<p><b>Contact: Angela Menezes</b>  <b>Tel: +44 (0) 203 299 4141</b>  <b>E-Mail: angela.menezes@nhs.net</b>  <b>Website: www.viapath.co.uk</b></p>
<p><b>Testing performed at the above address only</b></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>	<u>In house documented methods incorporating manufacturers' instructions as required</u>
Serum/Plasma (unless stated otherwise)	<u>Blood Sciences Laboratory</u>	Automated using: Roche Cobas 8000 – c702 module, spectrophotometry: LP-BS-C8000 by calculation
and Urine	Albumin	
Urine only	Albumin : Creatinine ratio (ACR)	
	Alkaline Phosphatase	
	Alanine Transaminase	
	Amikacin	
	Ammonia	
and Urine	Amylase	
	Angiotensin Converting Enzyme	
	Aspartate Amino Transaminase	
	Bilirubin - Conjugated	
	Bilirubin - Total	
and Urine	Caeruloplasmin	by calculation
and Urine	Calcium	
	Adjusted Calcium	
	Carbamazepine	
	Creatine Kinase	
and Urine	Creatinine	
and Urine	Creatinine Clearance	by calculation
	C-Reactive Protein CRP	
	C3/C4 Complement	
	Cystatin C	
	Digoxin	
	eGFR	by calculation
	Gamma Glutamyl Transferase (GGT)	
	Globulins	by calculation
and Cerebrospinal Fluid (CSF)	Glucose	
	Haptoglobin	
	HDL Cholesterol	
	Immunoglobulins A,G,M	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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/Plasma (unless stated otherwise)(cont'd)	<u>Blood Sciences Laboratory (cont'd)</u>	Automated using: Roche Cobas 8000 – c702 module, spectrophotometry: LP-BS-C8000
and CSF	Iron Lactate Lactate Dehydrogenase (LDH) Lipase Lithium Low Density Lipoprotein (LDL) Cholesterol	by calculation
and Urine	Magnesium Non-High Density Lipoprotein (non-HDL) Cholesterol Pancreatic Amylase Paracetamol Phenobarbitone Phenytoin Inorganic Phosphate Protein : Creatinine ratio (PCR) Rheumatoid Factor Salicylate Theophylline Total Iron Binding Capacity (TIBC) Total Bile Acids Total Protein Triglyceride Tobramycin Total CO2 (Bicarbonate)	by calculation
and Urine Urine only	Urea Urate Protein Valproate Cholesterol	by calculation
and Urine and Urine Urine and CSF only		
Serum/Plasma and Urine	ISEs: Sodium Potassium Chloride	Automated using: Roche Cobas 8000 – ISE module, Potentiometry: LP-BS-C8000
Serum/Plasma	Alpha-Fetoprotein (AFP) Carcino-Embryonic Antigen (CEA) Cortisol Oestradiol Follicle Stimulating Hormone (FSH)	Automated using: Roche Cobas 8000 – e801 module, Immunoassay: LP-BS-C8000



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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/Plasma (cont'd)	<u>Blood Sciences Laboratory (cont'd)</u>	
Blood	Human Chorionic Gonadotrophin (hCG)	Automated using: Roche Cobas 8000 – e801 module, Immunoassay: LP-BS-C8000
Blood	Luteinising Hormone (LH)	
	Progesterone	
	Procalcitonin	
	NT-Pro BNP	
	Prolactin	
	Prostate Specific Antigen (PSA)	
	Free Thyroxine (FT4)	
	Free Triiodothyronine (FT3)	
	Sex Hormone Binding Globulin (SHBG)	
	Testosterone	
	Thyroid Stimulating Hormone (TSH)	
	Vitamin D	
	Ferritin	
	Vitamin B12	
	Folate	
	Vancomycin	
	Gentamicin	
	Troponin T (Total)	
	Parathyroid Hormone (PTHi)	
	CA125	
	Anti-Thyroid Peroxidase Antibodies	



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HUMAN BODY FLUIDS (cont'd)  Blood Pleural fluid	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>  <u>Blood Sciences Laboratory (cont'd)</u>  pH pCO <sub>2</sub> K <sup>+</sup> Na <sup>+</sup> Cl <sup>-</sup> cLac pO <sub>2</sub> ctHb sO <sub>2</sub> FO <sub>2</sub> Hb FCO <sub>2</sub> Hb FHb FMetHb FHbf	<u>In house documented methods incorporating manufacturers' instructions as required</u>  Potentiometry  Amperometry Optical Density Spectrophotometry
CSF  Serum Urine  Blood  Urine  Urine	Xanthochromia  Osmolality  <u>Diabetic Laboratory</u>  Haemoglobin A1c  Urinalysis (glucose, bilirubin, ketones, blood, pH, protein, urobilinogen, nitrite, leucocyte)  hCG (Pregnancy testing)	UVIKON XS using Spectrometry: LP-BS-CB005  3320 Osmometer using Depression of Freezing Point: LP-BS-CB006  Menarini 9210, using boronate affinity chromatography: LP-CB-DC-HBA1C  Siemens Clinitek Status urinalysis analyser: LP-CB-DC-STATUS PLUS  Siemens Clinitek Status urinalysis analyser: LP-CB-DC-STATUS PLUS



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required
	<u>Gut Permeability Laboratory</u>	
Faeces	Elastase	Diasorin immunoassay on the Liaison XL analyser:  LP-CB-GI-LXLFELA
Faeces	Calprotectin	LP-CB-GI-LXLCALP  HILIC chromatography / mass spectrometry using: Jasco HPLC system and API 3200 mass spectrometer LP-CB-GI-SBPT
	<u>Immunochemistry Laboratory</u>	
Blood	Alpha-1-antitrypsin phenotype	Isoelectric focusing using Sebia on the Hydrasys analyser: Hydrigel A1AT assay LP-CB-IM-AAT
	Alkaline phosphatase isoenzymes	Hydrigel ISO-PAL LP-CB-IM-ALPI
Nasal / ear fluid	Beta-2-transferrin	Hydrigel 6 B2 Transferrin(e) assay LP-CB-IM-CTAU
Blood CSF	Oligoclonal bands	Hydrigel 9 COGB assay LP-CB-IM-COGB
Blood	Adrenocorticotrophic hormone	Siemens immunoassay on the Immulite XPi analyser: LP-CB-IM-ACTH
	Androstenedione	LP-CB-IM-ANDS
	Thyroglobulin autoantibodies	LP-CB-IM-ATG
	Insulin like growth factor binding protein-3	LP-CB-IM-IGFBP-3
	Carbohydrate antigen 19-9	LP-CB-IM-CA199
	C-peptide	LP-CB-IM-CPEP
	Dehydroepiandrosterone sulphate	LP-CB-IM-XPIDHEAS
	Erythropoietin	LP-CB-IM-EPO
	Growth hormone	LP-CB-IM-GH
	Insulin	LP-CB-IM-INS
	Thyroglobulin	LP-CB-IM-TG



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>  Immunochemistry Laboratory (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>
Blood	Aldosterone Calcitonin Insulin like growth factor-1 S-100 protein Renin	Diasorin immunoassay on the Liaison XL analyser: LP-CB-IM-ALDO LP-CB-IM-CALC LP-CB-IM-IGF-1 LP-CB-IM-S100 LP-CB-IM-Renin
EDTA plasma		
Blood	Chromogranin A	Euro-Diagnostica radioactive immunoassay: LP-CB-IM-CGA
Blood	Macroprolactin	PEG precipitation followed by Prolactin immunoassay on the Roche Cobas e801: LP-CB-IM-MPROL
Blood	Aminoterminal propeptide of type III procollagen	Orion Diagnostics P3NP radioactive assay: LP-CB-IM-P3NP
Serum	Soluble Transferrin Receptor	Manual Human sTfR ELISA and Bio-Tek 800 TS plate reater: LP-CB-IM STFR
Urine	N-telopeptides of type 1 collagen	Manual Osteomark Urine NTx ELISA and Bio-Tek 800 TS plate reater: LP-CB-IM NTX
	<u>Porphyryns Laboratory</u>	
Urine	5-aminolevulinic acid and porphobilinogen	Ion exchange chromatography separation / colourimetric spectrophotometry using: Bio-Rad ALA-PBG Column test kit and Perkin Elmer Lambda 35 UV/Vis spectrometer LP-CB-POR-ALAPBG



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required
Blood	Porphyryns Laboratory  Hydroxymethylbilane synthase	Fluorescence spectroscopy using: Perkin Elmer LS-45 luminescence spectrometer LP-CB-POR-HMBS
Urine	Porphobilinogen	Ion exchange chromatography separation / colourimetric spectrophotometry (quantitative) using: Bio-Rad Column test kit and Perkin Elmer Lambda 35 UV/Vis spectrometer: LP-CB-POR-URGPBG
Blood	Total plasma porphyrins (qualitative) Free and zinc protoporphyrin	Fluorescence spectroscopy using: Perkin Elmer LS-45 luminescence spectrometer LP-CB-POR-PORP LP-CB-POR-PROTO
Urine, Faeces	Porphyryn fractionation	High performance liquid chromatography with fluorescence detection: ThermoFisher Ultimate 3000 HPLC with fluorescence detector LP-CB-POR-HPLC
Urine, Faeces	Total urine/faecal porphyrins	Spectrophotometry using: Perkin Elmer Lambda 35 spectrophotometer LP-CB-POR-TOTAL



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required
Blood	<u>Metabolic Laboratory</u>  Carbohydrate deficient transferrin	Capillary electrophoresis using the Sebia Capillarys 2 analyser LP-CB-SI-CDT
Synovial fluid	Crystals of: Monosodium urate Calcium pyrophosphate	Polarising light microscopy: LP-CB-SI-CRYSTALS
Urine	Ethyl glucuronide Ethyl sulphate	Hypercarb chromatography / mass spectrometry using: SCIEX API 3200 mass spectrometer / Jasco HPLC LP-CB-SI-ETGS
Urine and serum	Fluoride	Ion selective electrode: EDT Fluoride ISE electrode LP-CB-SI-FLUORIDE
Plasma, Urine	Metanephrine Normetanephrine 3-Methoxytyramine	TurboFlow chromatography / mass spectrometry: LP-CB-SI-PMET LP-CB-SI-UMETS-LCMS/MS
Urine	5-Hydroxyindoleacetic acid	LP-CB-SI-5HIAA-LC-MS/MS
Sweat	Chloride	Protein precipitation, manual method:  Macroduct Advanced Sweat Collection device and advanced 3710 Iontophoresis system using: Sherwood Scientific 926 MK II Chloride Analyser  LP-CB-SI-SWEAT
Faeces	Haemoglobin (quantitative)	OC Sensor IO faecal immunochemical test: LP-CB-GI-Quantitative FIT





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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required
Urine	<u>Metabolic Laboratory</u>  Cortisol	Reverse phase chromatography/mass spectrometry using: SCIEX API 3200 mass spectrometer / Jasco HPLC LP-CB-IM-UCORI
Urine	<u>Steroids Laboratory</u>  Androsterone Aetiocholanolone DHA 11-Oxoetiocholanolone 11β-Hydroxyandrosterone 11β-Hydroxyetiocholanolone 16α-Hydroxy DHA Preganediol Pregnanetriol Androstenetriol Tetrahydrocortisone Tetrahydro-11-dehydrocorticosterone	Sample derivatisation / gas chromatography mass spectrometry using: Perkin Elmer GC-MS LP-CB-ST-USP1 LP-CB-ST-USP2
Urine	Tetrahydrocorticosterone <i>allo</i> -Tetrahydrocorticosterone Tetrahydrocortisol <i>allo</i> -Tetrahydrocortisol α-Cortolone β-Cortolone + β-cortol α-Cortol Total 11-deoxy-17-oxosteroids Total corticosterone metabolites Total cortisol metabolites	Sample derivatisation / gas chromatography mass spectrometry using: Perkin Elmer GC-MS LP-CB-ST-USP1 LP-CB-ST-USP2
Serum/Plasma	Cortisol 11-deoxycortisol 11-deoxycorticosterone (DOC) 17-Hydroxyprogesterone Dihydrotestosterone (DHT) Testosterone	Liquid chromatography-tandem mass spectrometry using: Agilent 1290-6495 LC-MS/MS LP-CB-ST-Serum Steroids6495  LP-CB-ST-DHTand T



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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>
Plasma	<u>Toxicology Laboratory</u> Clozapine & Norclozapine	Tecan Freedom EVO LC-MS/MS LP-CB-TOX-037
Plasma	Combined antipsychotics: Olanzapine Amisulpride Aripiprazole & dehydroaripiprazole Risperidone & 9-hydroxyrisperidone Sulpiride Quetiapine and metabolites	Liquid-liquid extraction and LC-MS/MS using: Jasco XLC HPLC system and Thermo TSQ Quantum MS/MS LP-CB-TOX-055  LP-CB-TOX-062
Plasma/Serum	Triazole antifungals: Itraconazole & hydroxyitraconazole Voriconazole Posaconazole Fluconazole Tyrosine Kinase Inhibitors: Imatinib & norimatinib Dasatinib Nilotinib	LC-MS/MS using: Agilent 6460 LC-MS/MS LP-CB-TOX-085  LP-CB-TOX-084
Urine	Urine Drug Screen:  Amfetamine, Metamfetamine, MDMA Cocaine metabolite (benzoylecgonine) Methadone & metabolite (EDDP) Morphine, codeine, 6-AM, dihydrocodeine Cannabis	LC-HR-MS using: Dionex Ultimate 3000 LC, Vanquish Flex LC and Q Exactive MS LP-CB-TOX-074
Urine	Benzodiazepine group Buprenorphine and metabolites Ketamine and metabolite Tramadol and metabolites Mephedrone Pregabalin Gabapentin	LP-CB-TOX-003 LP-CB-TOX-004 LP-CB-TOX-074 LP-CB-TOX-075 LP-CB-TOX-076 LP-CB-TOX-077 LP-CB-TOX-082 LP-CB-TOX-082
Powders/Tablets/Smoking mixtures	Unknown Substance Screen	LP-CB-TOX-080



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>  <u>Trace Element Laboratory (Toxicology)</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>
Urine	Barbiturate group	Immunoassays using: Indiko Plus Immunoassay LP-CB-TOX-002
Urine	Creatinine	Jaffe reaction LP-CB-TOX-025
Plasma	Lamotrigine	Turbidimetric assay LP-CB-TOX-046
Plasma	Ethanol	Enzymatic assay LP-CB-TOX-026
Urine	Teicoplanin	Immunoassay LP-CB-TOX-086
Serum/Plasma		
Blood	Copper Zinc Selenium Strontium Manganese Cobalt Chromium Aluminium Nickel	Inductively Coupled Plasma Mass Spectrometry using: ICAP-Q ICP-MS LP-CB-TE-Ser/PI-ICPMS LP-CB-TE-AL/ICPMS LP-CB-TE-iCAPQ LP-CB-TE-ICPMS
Whole Blood (EDTA/Lithec)	Arsenic Cobalt Chromium Manganese Cadmium Lead, Thallium Mercury	Inductively Coupled Plasma Mass Spectrometry using: ICAP-Q ICP-MS LP-CB-TE-Bld-ICPMS  LP-CB-TE-URINE-BLD



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Urine	<u>Trace Element Laboratory (Toxicology) (cont'd)</u>  Cadmium Lead Thallium Arsenic Cobalt Chromium Iron Nickel Zinc Mercury Copper (pre- and post-penicillamine)	Inductively Coupled Plasma Mass Spectrometry using: ICAP-Q ICP-MS LP-CB-TE-URI-CPMS  LP-CB-TE-URI-ICPMS  LP-CB-TE-urine/Bld
Biopsy - Liver	Copper Iron	LP-CB-TE-TISSUE
END		