


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> MEDICAL</p> <p><b>8673</b></p> <p>Accredited to ISO 15189:2012</p>	<p><b>Imperial College Healthcare NHS Trust operating as North West London Pathology</b></p> <p>Issue No: 013 Issue date: 15 July 2021</p>	
	<p>North West London Pathology 2<sup>nd</sup> Floor Laboratory Block Charing Cross Hospital Imperial college Healthcare NHS Trust London W6 8RF</p>	<p>Contact: Varsha Patel E-Mail: varshapatel2@nhs.net Website: www.imperial.nhs.uk/about-us</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

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

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> Clinical Biochemistry Department St Mary's Hospital 2<sup>nd</sup> Floor Mint Wing South Wharf Road London, W2 1NY</p> <p><b>Local Contact</b> Varsha Patel</p>	Clinical Biochemistry	SM
<p><b>Address</b> Clinical Biochemistry Department G Block Hammersmith Hospital London, W12 0HS</p> <p><b>Local Contact</b> Varsha Patel</p>	Clinical Biochemistry	HH
<p><b>Address</b> Gut Hormone Laboratory Commonwealth Building Imperial College Hammersmith Hospital London, W12 0HS</p> <p><b>Local Contact</b> Varsha Patel</p>	Clinical Biochemistry	HHG
<p><b>Address</b> Clinical Biochemistry Department (CX1/G) Charing Cross Hospital Fulham Palace Road London, W6 8RF</p> <p><b>Local Contact</b> Varsha Patel</p>	Clinical Biochemistry	CX1
<p><b>Address</b> Clinical Biochemistry Department (CX8/12) Charing Cross Hospital Fulham Palace Road London, W6 8RF</p> <p><b>Local Contact</b> Varsha Patel</p>	Clinical Biochemistry Molecular Diagnostics	CX8



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Location details	Activity		Location code
<b>Address</b> Clinical Biochemistry Department 2 <sup>nd</sup> Floor Pathology Block Chelsea & Westminster Hospital Fulham Road London, SW10 9NH	<b>Local Contact</b> Varsha Patel	Clinical Biochemistry	CW
<b>Address</b> Operating Theatre 1 Hammersmith Hospital London, W12 0HS	<b>Local Contact</b> Varsha Patel	Clinical Biochemistry	HHT
<b>Address</b> Andrology Laboratory Area C, South Corridor Hammersmith Hospital London, W12 0HS	<b>Local Contact</b> Varsha Patel	Andrology	HHA



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#### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location
HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	In house documented procedures based on Abbott Architect ci-16200, ci-8200, both at HH and CX1. Ci-8200- only at CW, ci-16200 only at SM. Manuals and as specified below:	
Serum/plasma, urine	Albumin Amylase Calcium Chloride Creatinine Phosphate Potassium Protein (Total) Sodium Urate Urea	CHM-LP-101-IMP	HH CW
Serum/plasma	Alanine Transaminase (ALT) Alkaline Phosphatase (ALP) Aspartate Transaminase (AST) Bicarbonate (TCO2) Bilirubin (conjugate) Bilirubin (total) C Reactive Protein Cholesterol Cholesterol:HDL ratio Creatine Kinase Gamma Glutamyl Transferase (GGT) Globulin Glomerular Filtration Rate High Density Lipoprotein – Cholesterol (HDL cholesterol) Lactate Dehydrogenase (LDH) Magnesium Triglyceride (fasting)	CHM-LP-101-IMP	HH CW
Serum/plasma	Bile acids (total)	CHM-LP-101-IMP	SM HH
EDTA plasma	B-type Natriuretic Peptide (BNP) High sensitivity Troponin I	CHM-LP-101-IMP	HH CW



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on Abbott Architect ci-16200, ci-8200, c-16000, c-8000, both at HH and CX1. Ci-8200C- 8000 only at FCW, c-16000ci-16200 only at SM. Manuals and as specified below:	
Serum	Cortisol Ferritin Follicle Stimulating Hormone (FSH) Free Thyroxine (FT4) Free Triiodothyronine (FT3) Human Chorionic Gonadotrophin (HCG)Iron Luteinising Hormone (LH) Oestradiol Progesterone Testosterone Thyroid Stimulating Hormone Transferrin saturation with iron	CHM-LP-101-IMP	HH CW
Serum	Digoxin Phenytoin	CHM-LP-101-IMP	SM HH CW
Serum	Folate Immunoglobulins A, G, M Vitamin B12	CHM-LP-101-IMP	SM HH CX1 CW
Serum/Plasma	Amikacin	CHM-LP-101-IMP	SM, HH, CX1 CW HH
Serum	Gentamicin Vancomycin		HH CX1
Serum	Paracetamol Salicylate		SM CW
Serum	Carbamazepine Phenobarb Theophylline Valproate	CHM-LP-101-IMP	CX1



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on Abbott Architect ci-16200, ci-8200, c-16000, c-8000, both at HH and CX1D. Ci-8200C- 8000 only at FCW, c-16000ci-16200 only at ASM. Mmanuals and as specified below:	
Serum	Vitamin D (total) Lithium	CHM-LP-101-IMP	CW
Serum	Prolactin	CHM-LP-101-IMP	HH
Urine	Micro Albumin Urine Protein	CHM-LP-101-IMP	HH CW
Urine	Magnesium	CHM-LP-101-IMP	
CSF	Protein (Total)	CHM-LP-101-IMP	HH CW
Plasma	Ammonia	CHM-LP-101-IMP	HH
Fluoride oxalate plasma/CSF	Glucose Lactate	CHM-LP-101-IMP	HH CW
Fluoride oxalate plasma	Ethanol	CHM-LP-101-IMP	SM CW
EDTA plasma	Parathyroid hormone (PTH)	CHM-LP-101-IMP	HH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on Abbott Alinity ci, Photometric measurement, Potentiometric measurement and Chemiluminescent microparticle immunoassay detection manuals and as specified below.	SM CX1
Serum/plasma, urine	Albumin Amylase Calcium Chloride Creatinine Phosphate Potassium Protein (Total) Sodium Urate Urea	CHM-LP-667-NWL	
Serum/plasma	Alanine Transaminase (ALT) Alkaline Phosphatase (ALP) Aspartate Transaminase (AST) Bicarbonate (TCO <sub>2</sub> )	CHM-LP-667-NWL	
Serum/Plasma	Bilirubin (conjugate) Bilirubin (total) C Reactive Protein Cholesterol Cholesterol:HDL ratio Creatine Kinase Gamma Glutamyl Transferase (GGT) Globulin Glomerular Filtration Rate High Density Lipoprotein – Cholesterol (HDL cholesterol) Lactate Dehydrogenase (LDH) Magnesium Triglyceride (fasting)	CHM-LP-667-NWL	



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on Abbott Alinity ci, Photometric measurement, Potentiometric measurement and Chemiluminescent microparticle immunoassay detection manuals and as specified below.	
EDTA plasma	B-type Natriuretic Peptide (BNP) High sensitivity Troponin I	CHM-LP-667-NWL	CX1
Serum	ACE Caeruloplasmin Cortisol Digoxin Ferritin Follicle Stimulating Hormone (FSH) Free Thyroxine (FT4) Free Triiodothyronine (FT3) Human Chorionic Gonadotrophin (HCG) Iron Lithium Luteinising Hormone (LH) NT-proBNP Oestradiol Procalitonin Progesterone Prolactin SHBG Testosterone Thyroid Stimulating Hormone Transferrin saturation with iron Vitamin D (total)	CHM-LP-667-NWL	CX1
Serum/CSF	Calcium adjusted for albumin (CADJ) Alphafetaprotein (AFP)	Calculation using CHM-ED-016-IMP, CHM-LP-667-NWL CHM-LP-667-NWL	CX1



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on Abbott Alinity ci, Photometric measurement, Potentiometric measurement and Chemiluminescent microparticle immunoassay detection manuals and as specified below.	
Serum	%free PSA (FPSA) CA125 CA153 CA19-9 Carcinoembryonic antigen(CEA) Prostate specific antigen (PSA) Squamous Cell Carcinoma Ag (SCC)	CHM-LP-667-NWL	CX1
Urine	Micro Albumin Urine Protein	CHM-LP-667-NWL	SM CX1
Urine	Magnesium	CHM-LP-667-NWL	CX1
CSF	Protein (Total)	CHM-LP-667-NWL	SM CX1
Plasma	Ammonia		CX1
Fluoride oxalate plasma/CSF	Glucose Lactate		SM CX1
EDTA plasma	Parathyroid hormone (PTH)		SM CX1
Urine	Drugs of Abuse screen: Amphetamines Benzodiazepines Cannabinoids Cocaine Opiates Methadone & EDDP	Abbott Architect C8000 with specific reference to: CHM-LP-587-IMP	CX8
Faeces	Calprotectin	CHM-LP-101-IMP	CX8
Serum / Plasma	Lipoprotein (a)	CHM-LP-101-IMP	CX8





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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	Abbott Architect i2000SR with specific reference to:	
Serum/Plasma	Homocysteine (HCY)	CHM-IS-347-IMP	CX8
Serum/Plasma	Insulin	CHM-IS-345-IMP	CX8
Serum/Plasma	C-peptide	CHM-IS-346-IMP	CX8
EDTA whole blood	Folate (red cell) (RCF)	CHM-LP-233-IMP	CX8
CSF	Xanthochromia	Spectrophotometry: Evolution 201 CHM-LP-640-M	SM
EDTA whole blood	HbA1C	TOSOH G8 measurement by HPLC: CHM-LP-619-IMP	SM HH CX1 CWH
Serum, urine	Osmolality	Advanced Instruments Micro Osmometer: CHM-LP-383-IMP Osmometry	SM HH CX1 CW
EDTA plasma	Gastrin	In house documented procedures based on In house RIA: BSC-LP-004NWL	HHG
EDTA plasma	Somatostatin		HHG
EDTA plasma	Vasoactive Intestinal Peptide (VIP)		HHG
EDTA plasma	Pancreatic polypeptide		HHG
EDTA plasma	Glucagon		HHG
EDTA plasma	Chromogranin A		HHG
EDTA plasma	Chromogranin B		HHG
EDTA plasma	Cocaine- and Amphetamine-Regulated Transcript (CART)		HHG



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>		
Serum, CSF, urine	Total' hCG (HCGTM)	CHM-LP-408-X  ICP-MS (Agilent 7700, 7900): CHM-LP-589-IMP	CX8
Whole blood	Arsenic Cadmium Lead Mercury Thallium	CHM-MP-042-X	CX1
Serum/plasma	Copper Zinc	CHM-MP-042-X	CX1
Serum/plasma	Selenium	CHM-MP-042-X	CX1
Urine	Arsenic Cadmium Chromium Cobalt Copper Iron Lead Manganese Mercury Thallium Zinc	CHM-LP-589-IMP CHM-MP-042-X	CX1
Whole blood/ Serum/ plasma	Cobalt Chromium Manganese	ICP-MS (Element 2): CHM-LP-477-IMP	CX1
Urine	Drugs of Abuse confirmation: amphetamines opiates	Biotage manifold and Shimadzu QP2010 SE GC-MS: CHM-LP-275- IMP  Tandem mass spectrometry Liquid Chromatography-Mass spectrometry- Mass spectrometry:	CX8
Serum	Testosterone (Female)	CHM-LP-482-IMP	CX8
Serum	Androstenedione17(OH) Progesterone	CHM-LP-582-IMP	CX8



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	Tandem mass spectrometry Liquid Chromatography-Mass spectrometry-Mass spectrometry:	
Serum	25-Hydroxy Vitamin D	CHM-LP-203-IMP	CX8
Plasma	Aldosterone	CHM-LP-613-IMP	CX8
Plasma	Renin	CHM-LP-654-IMP	CX8
Serum	Prednisolone	CHM-LP-646-IMP	CX8
Plasma	Metanephrine	CHM-LP-674-NWL	CX8
Plasma	Normetanephrine	CHM-LP-674-NWL	CX8
Plasma	3-methoxytyramine	CHM-LP-674-NWL	CX8
		In house documented procedures based on High Performance Liquid Chromatography:	
Urine	Catecholamines (Urine)	CHM-LP-230-IMP, CHM-LP-592-IMP	CX8
Urine	Metanephrines (Urine)	CHM-LP-598-IMP, CHM-LP-592-IMP	CX8
Urine	5HIAA (5-hydroxyindole acetic acid) (Urine)	CHM-LP-229-IMP, CHM-LP-592-IMP	CX8
Serum / Plasma	Vitamin A&E	CHM-LP-643-IMP	CX8
		Roche Cobas e411 and CHM-LP-096-IMP with specific reference to:	
Serum/Plasma	Total Procollagen Type 1 N-Terminal proPeptide (P1NP)	CHM-IS-400-IMP	CX8
Serum	Anti-Mullerian Hormone (AMH)	CHM-IS-423-IMP	CX8
Serum	Neuron-Specific Enolase (NSE)	NSE Roche Cobas Elecsys CHM-IS-507-IMP	CX8
Serum	Serum Bone Alkaline Phosphatase (BALP)	ELISA kit (Metra/Quidel, Activity) CHM-LP-016-IMP	CX8



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	Roche Cobas e411 and CHM-LP-096-IMP with specific reference to:	
Urine	Urine N-Telopeptide of Type 1 Collagen	ELISA kit (Osteomark): CHM-LP-015-IMP  Sebia Capillars and as specified below:	CX8
Serum	ALP Isoenzyme Analysis	CHM-LP-034-X  Sebia Capillars and as specified below:	CX8
Serum	CK Isoenzyme Analysis	CHM-LP-107-X	CX8
Plasma and Serum	Cryoglobulins	CHM-LP-390-X	CX8
Serum	Paraprotein quantitation & typing	Serum Electrophoresis using Sebia Capillary's and/or Hydrasys: CHM-LP-361-X, CHM-LP-032-NWL, CHM-LP-036-NWL	CX8
Urine	Bence Jones Proteins	CHM-LP-333-IMP CHM-LP-032-X  Beckman Immage 800 and as specified below:	CX8  CX8
Serum/Urine/CSF/Fluid	Albumin	CHM-LP-343-X	
Serum	Alpha-1-Antitrypsin	CHM-LP-343-X	
Serum	Apolipoprotein A1	CHM-LP-343-X	
Serum	Apolipoprotein B	CHM-LP-343-X	
CSF, Fluid	Beta-2/Asialo Transferrin/CDT	CHM-LP-360-X	
Serum/	Immunoglobulin IgG	CHM-LP-343-X	
Serum/	Caeruloplasmin	CHM-LP-343-X  Binding Site Optilite:	
Serum/	Free Light Chains	CHM-LP-627-IMP	CX8
Serum	Beta-2 Microglobulin	CHM-LP-627-IMP	CX8



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on manufacturers manuals and as specified below:	
Serum/plasma, CSF	Identification of Oligoclonal bands	Beckman Coulter ELISA and specified below: In house method by Isoelectric focussing CHM -LP-359-X	CX8
Faeces	Calprotectin	Calprotectin 2 EliA Assay on Phadia ImmunoCAP 250 CHM-LP-631-X	CX8
Serum	Inhibin B	CHM-LP-404-X	CX8
Serum/CSF	Placental Alk. Phos (PLAP)	CHM-LP-405-XINNOTEST hPLAP (EIA)	CX8
		Siemens Immulite and as specified below CHM-LP-263-X:	CX8
Serum,	Rapid 'Total' hCG (HCGE)	CHM-IS-427-IMP	
EDTA plasma	ACTH (Adrenocorticotrophic hormone)	CHM-IS-349-IMP	
Serum	DHEAS (Dehydroepiandrosterone sulphate)	CHM-IS-351-IMP	
Serum	SHBG (Sex Hormone Binding Globulin)	CHM-IS-354-IMP	
Serum	Growth Hormone	CHM-IS-353-IMP	
Serum	Erythropoietin (EPO)	CHM-IS-352-IMP	
Serum/plasma	Thyroglobulin	CHM-IS-355-IMP	
Serum/plasma	Thyroglobulin Ab	CHM-IS-355-IMP	



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on manufacturers manuals and as specified below:	
Urine	Cortisol (Urine Free Cortisol (UFC)	Siemens Immulite and as specified below CHM-LP-263-X: CHM-LP-362-IMP	CX8
Urine, faeces	Reducing Substances/ Sugar Chromatography	Thin layer chromatography CHM-LP-388-IMP	CX8
Faeces	Reducing Substances	Thin layer chromatography CHM-LP-621-C	CW
Urine	Porphyryns	Hitachi U1800 spectrophotometer and as specified below: CHM-LP-148-IMP, CHM-LP-198-IMP	CX8
Urine	Porphobilinogen (PBG)	CHM-LP-696-IMP	CX8
Serum	Calcitonin	(CLIA) Diasorin Liaison XL and as specified below CHM-LP-579-IMP: CHM-IS-051-IMP	CX8
Serum,	S 100 (serum)	CHM-IS-070-IMP	CX8
Serum,	IGF-1	CHM-IS-330-IMP	CX8
Serum,	Macroprolactin estimation (MPrl)	PEG and Abbott Architect i2000SR CHM-LP-234-IMP	CX8
EDTA plasma	Parathyroid hormone (PTH)	Future Diagnostics IO-PTH System: CHM-LP-480-H	HHT
Urine	BhCG (pregnancy test)	Alere Pregnancy Kit: CHM-LP-088-C	CW
Faeces	Human haemoglobin	FIT: Mast Group OC Sensor io Latex agglutination reaction measured turbidimetrically CHM-LP-670-NWL	CX8



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	In house documented procedures based on manufacturers manuals and as specified below:	
	Calcium adjusted for albumin (CADJ)	Calculation using CHM-ED-016-IMP, CHM-LP-101-IMP	HH CW
Renal Stones	Calculi	Using the • JASCO FT/IR-4600 Spectrophotometer: Stones analysis by Fourier Transform Infrared (FTIR) spectroscopy CHM-LP-671-NWL	CXH
	<u>Molecular examination activities for the purposes of clinical diagnosis</u>		
Whole Blood/DNA/CVS	Primary Hyperoxaluria Type 1 (AGXT) whole gene sequence Primary Hyperoxaluria Type 2 (GRHPR) whole gene sequence Primary Hyperoxaluria Type 3 (HOGA1) whole gene sequence	For the diagnosis of Primary Hyperoxaluria, using Sanger Sequencing. Manual Extraction/ ABI thermocycler / Sequencing by in-house ABI Seqstudio: CHM-LP-652-IMP: DNA Extraction. CHM-LP-651-IMP: Gene Amplification CHM-LP-653-IMP: Cycle sequencing CHM-LP-655-IMP: DNA Sequence Analysis CHM-LP-656-IMP: Molecular Genetics Reporting	CX8



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HUMAN BODY FLUIDS (cont'd)	<u>Molecular examination activities for the purposes of clinical diagnosis (cont'd)</u>		
Whole Blood/DNA/CVS	5 alpha reductase (SRD5A2) whole gene sequence 11β-hydroxylase (CYP11B1) whole gene sequence Aldosterone synthase (CYP11B2) whole gene sequence 17α-hydroxylase (CYP17A1) whole gene sequence 17 β-hydroxysteroid dehydrogenase (HSD17B3) whole gene sequence 3 β-hydroxysteroid dehydrogenase / isomerise (HSD3B2) whole gene sequence Nuclear receptor subfamily 5 group A member 1 (NR5A1) whole gene sequence	For the diagnosis of Steroid Disorders, using Sanger Sequencing. Manual Extraction/ ABI thermocycler / Sequencing by in-house ABI Seqstudio: CHM-LP-652-IMP: DNA Extraction. CHM-LP-651-IMP: Gene Amplification CHM-LP-653-IMP: Cycle sequencing CHM-LP-655-IMP: DNA Sequence Analysis CHM-LP-656-IMP: Molecular Genetics Reporting	CX8
Semen	<u>Andrology examination activities for the purposes of clinical diagnosis</u>	Documented in-house procedures based on WHO Laboratory Manual 5 <sup>th</sup> Edition (2010):	
	Semen Volume Sperm Count Sperm Motility Sperm Morphology	Manual method using documented in-house procedure SOP CHM-LP-412-H	HHA
	Volume Sperm presence/absence	Manual Post-Vasectomy method using documented in-house procedure SOP CHM-LP-412-H	HHA
	Sperm Count Sperm Motility	CASA Semi automated semen analysis CHM-LP-412-H	HHA
END			