

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



8341

Accredited to
ISO 15189: 2022

University College London Hospitals NHS Foundation Trust

Issue No: 006 Issue date: 02 June 2025

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS	<u>Metabolic Biochemistry</u> Biochemical examination activities for the purposes of clinical diagnosis. Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified:
CSF	<u>Disorders of Neurotransmission:</u> Monoamine metabolites (5HIAA, 3MD, 5HTP, HVA) 5-methyltetrahydrofolate	LCMS in-house underivatized method using Waters Acquity UPLC and Xevo XS
	Pterins (BH4, BH2 and Neopterin)	SOP NMU-HPLC-03-Pterins by in-house Jasco HPLC using electrochemical detection (ECD) and Fluorescence using ChromNav softwar
Muscle	<u>Mitochondrial Respiratory Chain Disorders:</u> Complex I Complex II + III Complex IV Citrate Synthase	In-house spectrophotometric assay using Uvicon XL Spectrophotometer with reference to the following procedures: SOP NMU-Mito-04-Complex I SOP NMU-Mito-05-Complex II-III SOP NMU-Mito-07-Complex IV SOP NMU-Mito-03-Citrate Synthase



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HUMAN BODY FLUIDS (cont'd)	<u>Metabolic Biochemistry</u> Biochemical examination activities for the purposes of clinical diagnosis. Quantification of (cont'd):	In house documented procedures based on equipment manuals and standard methods as specified:
Muscle	<u>Mitochondrial Respiratory Chain Disorders:</u> Complex V Ubiquinone Coq10	In-house spectrophotometric assay using Uvicon XL Spectrophotometer with reference to the following procedures: SOP NMU-Mito-13-Mitochondrial complex V assay by Blue Native Poly Acryl Amide Gel Electrophoresis SOP NMU-HPLC-15-Ubiquinone Coenzyme Q10 using Jasco HPLC using ChromNav software
Dried blood spots	Cardiolipin	Waters Acquity UPLC and Xevo XS



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HUMAN BODY FLUIDS (cont'd)	<u>Metabolic Biochemistry</u> Biochemical examination activities for the purposes of clinical diagnosis. Quantification of (cont'd):	In house documented procedures based on equipment manuals and standard methods as specified:
Plasma / Serum/ CSF	<u>Specialist Metabolic Assays</u> Amino acid analysis	SOP NMU-IEA-Amino Acid Analysis by ion-exchange chromatography with ninhydrin detection using Biochrom 30+Amino Acid Analysers Rapid amino acid quantification on the Waters Acquity QDA using AccQ Tag Ultra kit.
Urine	Urine Cystine, ornithine, arginine and lysine amino acid analysis	SOP NMU-IEA-Amino Acid Analysis by ion-exchange chromatography with ninhydrin detection using Biochrom 30+Amino Acid Analysers
Dried bloodspot	Phenylalanine and tyrosine	SOP NMU-MSMS-01-PKU Phenylalanine and Tyrosine by isotope dilution tandem mass spectrometry using Waters Acquity UPLC and Xevo TQD/ Xevo TQS Micro
Plasma	Carnitines and Acylcarnitine profiles	SOP NMU-MSMS-02-Tandem Plasma carnitines and Acylcarnitine profiles by isotope dilution tandem mass spectrometry using Waters Acquity UPLC and Xevo TQD/ Xevo TQS Micro
Plasma / Serum	Total homocysteine	SOP NMU-MSMS-03-Plasma Total homocysteine on Tandem by isotope dilution using Waters Acquity UPLC and Xevo TQD/ Xevo TQS Micro



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HUMAN BODY FLUIDS (cont'd)	<u>Metabolic Biochemistry</u> Biochemical examination activities for the purposes of clinical diagnosis. Quantification of (cont'd):	In house documented procedures based on equipment manuals and standard methods as specified:
	<u>Specialist Metabolic Assays</u>	
Plasma / Serum	Methylmalonic acid	SOP NMU-MSMS-05-Plasma Methylmalonate on tandem by isotope dilution using Waters Acquity UPLC and Xevo TQD/Xevo TQS Micro
	<u>Vitamins</u>	Jasco HPLC with reference to:
Whole Blood	Vitamin B1 (Thiamine)	SOP NMU-HPLC-08-Vitamin B1 (Thiamine)- fluorescence detection
Plasma / CSF	Vitamin B6 (Pyridoxal and PLP)	SOP NMU-HPLC-09-Vitamin B6- fluorescence detection
Plasma/serum	Vitamin A & E	Chromsystems UHPLC UV detection using Acquity QDA with reference to: NMU-HPLC-Vitamin A and E by reverse phase HPLC using Premix tubes NMU-HPLC-QDA vitamin A and E
END		