


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL</p> <p>8341</p> <p>Accredited to ISO 15189:2012</p>	<p>University College London Hospitals NHS Foundation Trust</p> <p>Issue No: 002 Issue date: 05 July 2020</p>	
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<p>Testing performed at the above address only</p>		

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 Pterins (BH4, BH2 and Neopterin)	SOP NMU-HPLC-01_Monoamines by in-house Jasco HPLC with electrochemical detection (ECD) SOP NMU-HPLC-03-Pterins by in-house Jasco HPLC using electrochemical detection (ECD) and Fluorescence
Muscle	5-methyltetrahydrofolate <u>Mitochondrial Respiratory Chain Disorders:</u> Complex I Complex II + III Complex IV Citrate Synthase	SOP NMU-HPLC-02-Folate by in-house Jasco HPLC and Fluorescence 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	Biochemical examination activities for the purposes of clinical diagnosis. Quantification of (cont):	In house documented procedures based on equipment manuals and standard methods as specified:
Muscle	<u>Mitochondrial Respiratory Chain Disorders:</u>	In-house spectrophotometric assay using Uvicon XL Spectrophotometer with reference to the following procedures:
	Complex V	SOP NMU-Mito-13-Mitochondrial complex V assay by Blue Native Poly Acryl Amide Gel Electrophoresis
	Lowry Protein Assay	SOP NMU-Mito-10-Lowry total protein assay by end-point spectrophotometric assay using Uvicon XL Spectrophotometer
	Ubiquinone Coq10	SOP NMU-HPLC-15-Ubiquinone Coenzyme Q10 using Jasco HPLC
	<u>Specialist Metabolic Assays</u>	
Plasma / Serum/ CSF	Amino acid analysis	SOP NMU-IEA-Amino Acid Analysis by ion-exchange chromatography with ninhydrin detection using Biochrom 30 and 30+Amino Acid Analysers
Urine	Urine Cystine, ornithine, arginine and lysine amino acid analysis	
Dried bloodspot	Phenylalanine and tyrosine	SOP NMU-MSMS-01-PKU Phenylalanine and Tyrosine by isotope dilution tandem mass spectrometry using Waters Acquity UPLC or QuatroMicro and Xevo TQD
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 or QuatroMicro and Xevo TQD



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HUMAN BODY FLUIDS	<u>Specialist Metabolic Assays</u>	
	Biochemical examination activities for the purposes of clinical diagnosis. Quantification of (cont):	In house documented procedures based on equipment manuals and standard methods as specified:
Plasma / Serum	Total homocysteine	SOP NMU-MSMS-03-Plasma Total homocysteine on Tandem by isotope dilution using Waters Acquity UPLC or QuatroMicro and Xevo TQD
Plasma / Serum	Methylmalonic acid	SOP NMU-MSMS-05-Plasma Methylmalonate on tandem by isotope dilution using Waters Acquity UPLC or QuatroMicro and Xevo TQD
	<u>Vitamins</u>	Jasco HPLC with fluorescence detection with reference to:
Whole Blood	Vitamin B1 (Thiamine)	SOP NMU-HPLC-08-Vitamin B1 (Thiamine)
Plasma / CSF	Vitamin B6 (Pyridoxal and PLP)	SOP NMU-HPLC-09-Vitamin B6
Plasma	Vitamin A & E	NMU-HPLC-Vitamin A and E
	<u>Miscellaneous</u>	
CSF	Angiotensin Converting Enzyme (ACE)	SOP NMU-MSMS-06-CSF ACE by isotope dilution using Waters Acquity UPLC or QuatroMicro and Xevo TQD
END		