Schedule of Accreditation

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University College London Hospitals NHS Foundation Trust

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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 software
Muscle	<u>Mitochondrial Respiratory Chain Disorders:</u>	In-house spectrophotometric assay using Uvicon XL Spectrophotometer with reference to the following procedures:
	Complex I	SOP NMU-Mito-04-Complex I
	Complex II + III	SOP NMU-Mito-05-Complex II-III
	Complex IV	SOP NMU-Mito-07-Complex IV
	Citrate Synthase	SOP NMU-Mito-03-Citrate Synthase

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Metabolic Biochemistry 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	Mitochondrial Respiratory Chain Disorders:	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
Muscle	Mitochondrial protein complexes	Blue Native Gel Electrophoresis SOP NMU-Mito-13 .4 *Mitochondrial complex V and protein complex assay by BNPAGE*
	Ubiquinone Coq10	SOP NMU-HPLC-15-Ubiquinone Coenzyme Q10 using Jasco HPLC using ChromNav software
Dried blood spots	Cardiolipin	Waters Acquity UPLC and Xevo XS

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Metabolic Biochemistry Biochemical examination activities for the purposes of clinical diagnosis. Quantification of (cont'd): Specialist Metabolic Assays	In house documented procedures based on equipment manuals and standard methods as specified:
Plasma / Serum/ CSF	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
Bloodspot	Quantitation of 3-methyl dopa and 5-hydroxytryptophan	Waters LC with TQ-XS mass spectrometer detection (NMU-MS-10-Bloodspot 3MD & 5HTP) analysis by Mass Spectrometry: (Bloodspot 3MD & 5HTP analysis by Mass Spectrometry)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Metabolic Biochemistry 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:
	Specialist Metabolic Assays	
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
	Vitamins	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
Plasma/Serum	Detection and quantitation of vitamin A and E	Waters UHPLC, UV detection NMU-HPLC-QDA_Vitamin A and E_96 deep well plate
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