Neurometabolic Unit Website

Mitochondrial Respiratory Chain Enzyme (Skeletal Muscle) Request Form

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Please refer to the current published User Manual on our website for further information for patients and users. https://www.uclh.nhs.uk/our-services/find-service/neurology-and-neurosurgery/neurometabolic-unit

For Neurometabolic Use Only
Winpath lab number:

In house code:
Freezer rack location:
Homogenate location

Identity of person performing biopsy:

Surname:
Forname:
Gender:
DOB:
Hospital no:
NHS no:

Hospital:

Specimen date and time:

Consultant name and e-mail:

Clinical and drug therapy details:

PLEASE NOTE the above details are essential to allow for the accurate interpretation of results.

Collection Instructions

- ***Label an appropriate tube using permanent marker with patient surname, first name, date of birth, hospital number, and specimen date.***
- ***Muscle specimen should be between 50-100mg. This specimen should be no smaller than 50mg (approx. same size as an orange pip) for accurate analysis to be possible.***
- ***Collect the muscle biopsy into the labelled tube.***
- ***ALL specimens should be frozen immediately at the bedside on dry ice or liquid nitrogen and transported to the laboratory frozen, or stored at –70˚C until transit.***
- ***Please ensure all samples arrive during lab opening hours: 9:00am – 17:30pm Monday to Friday (see user manual for more details).***

For MUSCLE Ubiquinone (CoQ10) analysis, please indicate YES ☐ or NO ☐
For LIVER respiratory chain enzyme analysis, please contact the laboratory directly.

SPECIMENS FAILING TO ADHERE TO ALL STATED SAMPLE REQUIREMENTS AND LABELLING MAY NOT BE PROCESSED -please contact the laboratory with any queries.

Neurometabolic use (Only)			
Total weight	**_____mg**	**Residual muscle:**	
Assayed weight:	**_____mg**	**Residual muscle location:**	

Test	Result (nmol/min/ml)	$\bar{x}$ Result	Ratio to CS	Reference Range
Complex I				**0.118 - 0.332**
Complex II/III				**0.072 - 0.335**
Complex IV				**0.013 - 0.039**
Citrate synthase (CS)			N/A	**N/A**

Results generated by: Date:	Results transcribed by: Date:	Results 2nd check by: Date:	Results authorised by: Date: