



Accredited Medical Laboratory  
Reference No: 3118

**Newcastle Highly Specialised Mitochondrial Diagnostic Service**

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**LAB TARIFFS & CHARGES**

***Histochemical investigation of mitochondrial abnormalities in skeletal muscle***

H and E, Cytochrome c oxidase (COX), Succinate Dehydrogenase (SDH),  
combined COX/SDH activity £175

***Immunohistochemical investigations***

Quadruple immunofluorescent assessment of mitochondrial respiratory chain function in muscle £550

***Biochemical investigations***

Respiratory chain enzymes and citrate synthase in fresh and frozen muscle £550

Respiratory chain enzyme activities and citrate synthase in cultured cells £600

Immunohistochemical assessment of respiratory chain function (muscle sections) £550

***Molecular genetic investigations (mtDNA and nuclear DNA disorders)***

Long-range PCR screen for mtDNA rearrangements £120

Real Time PCR screen for mtDNA rearrangements in single muscle fibres £250

m.3243A>G *MTTL1* mutation (MELAS) screen £70

m.8344A>G, m.8356T>C and m.8363G>A *MTTK* mutations (MERRF) screen £70

m.1555A>G aminoglycoside screen £70

m.8993T>G/C and m.9176T>G/C mutation (NARP/MILS) screen £140

Primary LHON mutations (m.3460G>A, m.11778G>A, m.14484T>C) £170

Screen for specific LHON mutation £70

*MTND6* gene sequencing in LHON £130

*MTCYB* gene sequencing £130

Whole mitochondrial genome sequencing (NGS) £550

Sequencing of mtDNA-encoded complex I genes (Sanger) £350

12SrRNA (*MTRNR1*) gene sequencing £170

Pyrosequencing of rare or novel pathogenic mtDNA mutation £100

Sanger Sequencing of known nuclear variants (per variant) £100

Lab Tariffs and Charges

Version 7.0 last updated 03.11.2018

mtDNA copy number assay using Taqman® real-time PCR	£90
<i>POLG</i> gene analysis – 5 exon screen	£180
<i>POLG</i> gene analysis – sequencing of entire coding region	£550
<i>TMEM70</i>	£160
<i>ACAD9</i>	£550
<i>TWNK</i> gene analysis	£350
<i>SLC25A4</i> gene analysis	£280
<i>POLG2</i> gene analysis	£350
<i>TK2, DGUOK, RRM2B, MPV17, SUCLA2, SUCLG1, MTO1, TRMU, TYMP</i> gene analysis	£410 each
<i>RARS2</i>	£550
Nuclear-encoded complex I structural subunits (9 genes)	£800
Nuclear-encoded complex II SDH sequencing (6 genes)	£700
Pre-natal Genetic Testing (mtDNA and nuclear gene mutations)	£300
Pre-genetic Implantation Diagnostic Testing (mtDNA mutations)	£600
Nuclear Maintenance/Depletion 18 gene NGS panel	£1150
Nuclear Complex I 49 gene NGS panel	£1150