



Center for Inherited Disorders of Energy Metabolism

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Test and Price List – Biopsies (Prices effective: September 5, 2011)

| Required tests for on-site fresh muscle (and/or liver) biopsy studies | | | | |
|--|--------------------------------|-------------------------|-----------------|----------------|
| ASSAY TYPE | Sample Type(s) | CPT Code (s) | Amount required | Price |
| Acylcarnitine Profile | muscle or liver | 82379, 82017 | 20 mg | \$ 220 |
| Adenine nucleotide translocase | Isolated mitochondria | 82657, 84311 | | \$ 600 |
| Complex V (ATPase and creatine kinase) | Isolated mitochondria | 82657x2, 84311x2 | | \$ 500 |
| CoQ10 analysis | Muscle | 82492x2 | 100 mg | \$ 535 |
| Electron Transport Chain (ETC) | Muscle | 82657x8, 84311x8 | 100 mg | \$ 800 |
| | Liver | 82657x7, 84311x7 | 100 mg | \$ 700 |
| | Isolated mitochondria | 82657x10, 84311x10, | | \$1000 |
| Initiation of skin fibroblast culture (mycoplasma testing, and cryopreservation) | Skin biopsy from incision site | 88233, 88240, 86738 | | \$ 400 |
| Mitochondrial Proteomics (Blue native gel electrophoresis) | Isolated mitochondria | 82664 | | \$1500 |
| Oxidative Phosphorylation (including mitochondrial preparation) | Isolated mitochondria | 82657x17 | ~3 gram | \$3600 |
| Phospholipid analysis | Isolated mitochondria | 82492, 83789 | | \$1000 |
| Phosphorylation assay | Isolated mitochondria | 82657x2 | | \$ 650 |
| Optional tests for on-site fresh muscle (and/or liver) biopsy studies on isolated mitochondria | | | | |
| Fatty Acid Oxidation Enzymes (FAO) - Acyl-CoA Dehydrogenases (Short-, Medium-, and Long Chain) | Isolated mitochondria | 82657x8, 84311x4, 84157 | | \$ 800 |
| Fatty Acid Oxidation Enzymes (FAO) - Short Chain: (3-OH Acyl CoA dehydrogenase) | Isolated mitochondria | 82657x4, 84311x4, 84157 | | \$ 800 |
| Ketoglutarate Dehydrogenase Complex (KDC) | Isolated mitochondria | 82658, 82657, 84157 | | \$ 350 |
| Kreb cycle enzymes Aconitase, Fumarase, Glutamate DH, Isocitrate DH, Malate DH, Succinate DH | Isolated mitochondria | 82657 each | | \$ 300 each |
| Kreb cycle enzymes (all of the above) | Isolated mitochondria | 82657x6 | | \$1000 |
| Pyruvate Dehydrogenase Complex (PDC) | Isolated mitochondria | 82658x2, 82657, 84157 | | \$ 600 |

*CIDEM's standard assays may be ordered concurrently; see standard Test and Price List **DH=Dehydrogenase