| Fatty Acid Oxidation Disorders | | | | |
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| **Condition** | **Method** | **Tier** | **Biomarker** | **Value** |
| 2,4 Dienoyl-CoA Reductase Deficiency | MS/MS | 1st | C10:2 | ≥ 0.12 µMol/L |
| Carntine Palmitoyltransferase Deficiency Type 1 | MS/MS | 1st | C0/(C16+C18) | ≥ 70 |
| | MS/MS | 1st | C0 | ≥ 60 µMol/L |
| Carntine Palmitoyltransferase Deficiency Type 2 and Carnitine/Acylcarnitine Translocase Deficiency | MS/MS | 1st | (C16+C18:1)/C2 | ≥ 0.40 |
| | MS/MS | 1st | C16 | ≥ 8.7 µMol/L |
| Carnitine Uptake Deficiency | MS/MS | 1st | C0 | < 4.0 µMol/L |
| Glutaric Acidemia (Type 2) | MS/MS | 1st | C4 | ≥ 1.2 µMol/L |
| | MS/MS | 1st | C5 | ≥ 0.60 µMol/L |
| | MS/MS | 1st | C6 | ≥ 0.30 µMol/L |
| | MS/MS | 1st | C8 | ≥ 0.50 µMol/L |
| | MS/MS | 1st | C10 | ≥ 0.34 µMol/L |
| Long-Chain 3-Hydroxylacyl-CoA Dehydrogenase Deficiency and Trifunctional Protein Deficiency | MS/MS | 1st | C16OH | ≥ 0.25 µMol/L |
| | MS/MS | 1st | C18OH | ≥ 0.12 µMol/L |
| Medium-Chain 3-Ketoacyl-CoA Thiolase Deficiency | MS/MS | 1st | C8 | ≥ 0.50 µMol/L |
| | MS/MS | 1st | C8/C10 | ≥ 3.0 |
| Medium-Chain Acyl-CoA Dehydrogenase Deficiency | MS/MS | 1st | C6 | ≥ 0.30 µMol/L |
| | MS/MS | 1st | C8 | ≥ 0.50 µMol/L |
| | MS/MS | 1st | C10:1 | ≥ 0.40 µMol/L |
| | MS/MS | 1st | C8/C10 | ≥ 3.0 |
| Medium/Short-Chain Hydroxyacyl Dehydrogenase Deficiency | MS/MS | 1st | C4OH | ≥ 3.03 µMol/L |
| Very Long-Chain Acyl-CoA Dehydrogenase Deficiency | MS/MS | 1st | C14:1 | ≥ 1.0 µMol/L |
| | MS/MS | 1st | C14 | ≥ 0.80 µMol/L |
| | MS/MS | 1st | C14:1/C16 | ≥ 0.25 |