MAYO CLINIC
Mayo Medical Laboratories

NEW TEST ANNOUNCEMENT
NOTIFICATION DATE: November 16, 2010
EFFECTIVE DATE: November 19, 2010

Very Long Chain Acyl-CoA Dehydrogenase Deficiency, Known Mutation
#60037

USEFUL FOR: Diagnostic confirmation of very long chain acyl-CoA dehydrogenase (VLCAD) deficiency when familial mutations have been previously identified

Carrier screening of at-risk individuals when a mutation in the *ACADVL* gene has been identified in an affected family member

METHODOLOGY: Polymerase Chain Reaction (PCR)/DNA Sequencing Analysis

REFERENCE VALUES: An interpretive report will be provided.

SPECIMEN REQUIREMENTS: **Blood:** 3 mL of whole blood in a Lavender-top (EDTA) tube or yellow-top (ACD) tube. Specimen must arrive within 96 hours of collection.

NOTE: **Alternate:** 5 blood spots on "Whatman Protein Saver 903 Paper"

CAUTIONS:

- The identification of a disease-causing mutation in an affected family member is necessary before predictive testing for other family members can be offered. If a familial mutation has not been previously identified, order #60036 "VLCAD Deficiency Full Gene Analysis."
- Analysis is performed for the familial mutation(s) provided only. This assay does not rule out the presence of other mutations within this gene or within other genes that may be associated with metabolic disease.
- Test results should be interpreted in the context of clinical findings, family history, and other laboratory data. Any error in the diagnosis or in the pedigree provided to us, including false-paternity, could lead to erroneous interpretation of results.
- A previous bone marrow transplant from an allogenic donor will interfere with testing. Call Mayo Medical Laboratories for instructions for testing patients who have received a bone marrow transplant.

LIST FEE: $491.40

CPT CODE:
83891-Isolation or extraction of highly purified nucleic acid
83898-Amplification, target, each nucleic acid sequence
83909 x 2-Separation and identification by high-resolution technique
83912-Interpretation and report

ANALYTIC TIME: 5 days **DAY(S) SET-UP:** Tuesdays, 10 AM

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager or
Marvin H. Anderson, Jr., MML Laboratory Technologist Resource Coordinator
Telephone: 800-533-1710