
Lab Dept: Chemistry

Test Name: **GROWTH DIFFERENTIATION FACTOR 15 (GDF15), PLASMA**

General Information

Lab Order Codes: GDF5

Synonyms: GDF15; Alpers Disease; CoEnzyme Q10 Deficiency; Lactic Acidosis; Mitochondrial diseases

CPT Codes: 83520 – Immunoassay for analyte other than infectious agent antibody or infectious agent antigen; quantitative NOS.

Test Includes: GDF15 level reported in pg/mL.

Logistics

Test Indications: Useful for a circulating biomarker in Myopathy-related mitochondrial disease as well as other conditions and for investigation of patients suspected of having a mitochondrial myopathy.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Mayo Medical Laboratories (Mayo Test: GDF15)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 8 – 10 days.

Special Instructions: Do not expose specimen to heat or direct sunlight.

Specimen

Specimen Type: Blood

Container: Lavender top (EDTA) plasma.
Green top (sodium heparin) plasma is acceptable.

Draw Volume: 1.5 mL (Minimum: 0.6 mL) blood

Processed Volume:	0.5 mL (Minimum: 0.2 mL) plasma Note: Submission of minimum volume does not allow repeat analysis
Collection:	Routine venipuncture
Special Processing:	Lab Staff: Centrifuge specimen and remove plasma aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimens

Interpretive

Reference Range:	3 months* and older: < or =750 pg/mL. *This test is not recommended for infants <3months of age due to the high levels of GDF15 contributed from the placenta during pregnancy. Abnormal results along with clinical findings may be suggestive of mitochondrial disease. Additional workup is indicated.
Critical Values:	N/A
Limitations:	N/A
Methodology:	Enzyme-Linked Immunosorbent Assay (ELISA)
References:	Mayo Medical Laboratories (December 2017)