
Lab Dept: Chemistry

Test Name: MYOGLOBIN, SERUM

General Information

Lab Order Codes: MYO

Synonyms: N/A

CPT Codes: 83874 - Myoglobin

Test Includes: Myoglobin concentration reported in mcg/L.

Logistics

Test Indications: Useful in assessing muscle damage from any cause.

Myoglobin is a heme protein found in smooth and skeletal muscles. Serum myoglobin reflects a balance between intravascular release of myoglobin from muscle and renal clearance.

Lab Testing Sections: Chemistry – Sendouts

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

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 - 2 days, test set up Monday - Saturday

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: SST(Gold, marble, or red) tube

Draw Volume: 3 mL (Minimum: 1.5 mL) blood

Processed Volume: 1 mL (Minimum: 0.5 mL) serum

Collection: Routine venipuncture

Special Processing: Lab Staff: Centrifuge specimen, remove serum 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; grossly lipemic specimens that can't be cleared by ultracentrifugation

Interpretive

Reference Range: <=90 mcg/L

Critical Values: N/A

Limitations: Elevation is nonspecific for myocardial infarction and is of no value in this regard in the presence of renal failure, rhabdomyolysis, extensive trauma, acute peripheral vascular occlusion, or after seizures.

Serum levels rise in renal insufficiency.

The lab will spin down lipemic serum but if unable to clear sample, it will be rejected.

Methodology: Latex Particle Enhanced Immunoturbidometric Assay

References: [Mayo Medical Laboratories](#) December 2017

Updates: 7/13/2010: Units change from ug/ml to mcg/mL.
724/2013: Units change from mcg/mL to mcg/L and new method.
12/12/2017: Collection container update.