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**Lab Dept:** Chemistry

**Test Name:** MYOGLOBIN, SERUM

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***General Information***

**Lab Order Codes:** MYO

**Synonyms:** N/A

**CPT Codes:** 83874 - Myoglobin

**Test Includes:** Myoglobin concentration reported in mcg/L.

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***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

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***Specimen***

**Specimen Type:** Blood

**Container:** Red top 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

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### ***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](#) (July 2013)

**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.