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**Lab Dept:** Urine/Stool

**Test Name:** MYOGLOBIN, URINE

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***General Information***

**Lab Order Codes:** MYOU

**Synonyms:** N/A

**CPT Codes:** 83874 - Myoglobin

**Test Includes:** Myoglobin, urine level reported in mcg/L.

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***Logistics***

**Test Indications:** Confirming the presence of a myopathy associated with hereditary myoglobinuria, phosphorylase deficiency, sporadic myoglobinuria, exertional myoglobinuria in untrained individuals, Crush syndrome, myocardial infarction, myoglobinuria of progressive muscle disease, and heat injury.

**Lab Testing Sections:** Urine/Stool - Sendouts

**Referred to:** Mayo Medical Laboratories (MML Test: MYGLU)

**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 – Friday

**Special Instructions:** Do not use a preservative for this collection as myoglobin deteriorates by 25% a day in preserved samples.

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***Specimen***

**Specimen Type:** Urine, random collection

**Container:** Plastic leakproof container (No preservatives)

**Draw Volume:** Entire random urine collection

**Processed Volume:** 5 mL (Minimum: 1 mL) urine aliquot

**Collection:** A random urine sample may be obtained by voiding into a urine cup and is often performed at the laboratory. Bring the refrigerated container to the lab. Make sure all specimens submitted to the laboratory are properly labeled with the patient's name, medical record number and date of birth.

**Special Processing:** Lab Staff: Mix specimen well. Remove 5 mL (Minimum: 1 mL) aliquot from urine specimen. Put aliquot in Special Mayo Myoglobin Transport Tube (Supply T691)\*.

If specimen is at ambient temperature, aliquot the urine within 1 hour of collection. Refrigerate specimen.

If specimen is refrigerated, aliquot the urine within 2 hours of collection. Refrigerate specimen.

Store and ship at refrigerated temperatures. Forward promptly.

\*Specimen must be submitted in Supply T691 or will be rejected.

**Patient Preparation:** None

**Sample Rejection:** Specimens other than urine; urine not submitted in special transport tube; mislabeled or unlabeled specimens

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### ***Interpretive***

**Reference Range:** All ages: <21 mcg/L

**Critical Values:** N/A

**Limitations:** An elevated level of myoglobin in urine does not identify the clinical disorder.

Urine collected with acid as a preservative will not be valid because acid interferes with antibody binding.

**Methodology:** Immunoturbidimetric Assay

**References:** [Mayo Medical Laboratories](#) May 2013

**Updates:** 7/13/2010: Units update from ug/mL to mcg/mL. Reference range update.  
7/24/2013: Method update, units previously listed as mcg/mL, reference range update.