
Lab Dept: Urine/Stool

Test Name: MYOGLOBIN, URINE

General Information

Lab Order Codes: MYOU

Synonyms: N/A

CPT Codes: 83874 - Myoglobin

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

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.

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

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.