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**Lab Dept:** Urine/Stool

**Test Name:** MAGNESIUM, TIMED URINE

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***General Information***

**Lab Order Codes:** UMGQ

**Synonyms:** Mg, Quantitative Urine; Magnesium, 24 hour urine

**CPT Codes:** 83735 – Magnesium  
81050 – Volume measurement for timed collection

**Test Includes:** Urine magnesium in mEq/L and mEq/collection

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***Logistics***

**Test Indications:** Magnesium is an essential mineral that is found in the body and is related to other cations such as calcium, phosphate, sodium and potassium. The body maintains magnesium levels in blood, cells and bone by regulating how much it absorbs from the intestines and how much it excretes or conserves in the kidneys.

**Lab Testing Sections:** Chemistry

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 day

**Special Instructions:** Submit an entire 24-hour urine collection. No preservative. Refrigerate specimen during and after collection.

**Note:** Starting and ending times of collection are required for a timed urine collection and must be documented electronically or on the proper request form.

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***Specimen***

**Specimen Type:** Urine, timed collection

**Container:** Plastic leakproof container (No preservative). Urine GUARD® collection container is preferred for a timed urine sample.

**Draw Volume:** Submit an entire 24-hour urine collection

<b>Processed Volume:</b>	Minimum: 0.5 mL urine
<b>Collection:</b>	For timed urine collections, empty the bladder, discard the voided sample, and note the start time. Collect all urine voided for the specified time period. At the end of the period, note the finishing time, add the last voided sample to the container by emptying the bladder. 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.
<b>Special Processing:</b>	Lab Staff: Measure total volume of specimen submitted and record by ordering PV (Period and Volume) in the LIS. Pour off an aliquot and centrifuge specimen before analysis.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Mislabeled or unlabeled specimens

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### ***Interpretive***

<b>Reference Range:</b>	None established
<b>Critical Values:</b>	N/A
<b>Limitations:</b>	N/A
<b>Methodology:</b>	Colorimetric, Methyl Thymol Blue
<b>References:</b>	MG Flex® reagent cartridge insert sheet Siemens Healthcare Diagnostics, Inc (2010-02-04) PN 717057.001 US Rev L  Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition  Biorad Liquichek Unassayed Chemistry Control Product Insert, Bio-Rad Laboratories, Irvine, CA 92618  Biorad Liquichek Urine Chemistry Control Product Insert, Bio-Rad Laboratories, Irvine, CA 92618
<b>Updates:</b>	12/10/2013: Move from mEq/L to mg/dL. Reference range updated. 9/28/2017: Updated lab processing.