Lab Dept:	**Urine/Stool**
Test Name:	**MAGNESIUM, TIMED URINE**

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

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.

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

Processed Volume:	Minimum: 0.5 mL urine
Collection:	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.
Special Processing:	Lab Staff: The urine aliquot should be acidified before analysis to a pH of 1-2 with 6N HCL.
Patient Preparation:	None
Sample Rejection:	Unlabeled specimens

Interpretive

Reference Range:	None established
Critical Values:	N/A
Limitations:	N/A
Methodology:	Colorimetric, Methyl Thymol Blue
References:	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
Updates:	12/10/2013: Move from mEq/L to mg/dL. Reference range updated.