

TEST STATUS

NOTIFICATION DATE: November 7, 2018

EFFECTIVE DATE: January 7, 2019

MAGNESIUM, RED BLOOD CELL
Test ID: FMAGR

EXPLANATION: Magnesium, Red Blood Cell, FMAGR will become obsolete on January 7, 2019, due to limited clinical utility.

The Red Blood Cell Magnesium test does not offer clinical advantages over serum levels, which should be performed at a local laboratory when possible. It also does not correlate with other tissue fractions. For total magnesium status, a magnesium tolerance test utilizing a 24-hour urine collection is a superior alternative.

RECOMMENDED ALTERNATIVE TEST:**MAGNESIUM, 24 HOUR, URINE**
Test ID: MAGU

METHOD: Colorimetric Endpoint Assay

REFERENCE VALUES:

51-269 mg/24 hr

Reference values have not been established for patients <18 years and >83 years of age.

Reference values apply to 24-hour collections.

SPECIMEN REQUIREMENTS:

Collection Container/Tube: 24-hour graduated urine container with no metal cap or glued insert

Submission Container/Tube: Plastic, 5-mL tube (T465) or a clean, plastic urine container with no metal cap or glued insert

Specimen Volume: 4 mL

Collection Instructions:

1. Collect urine for 24 hours.
2. Refrigerate specimen within 4 hours of completion of 24-hour collection.

Additional Information:

1. 24-Hour volume is required.

2. See Urine Preservatives-Collection and Transportation for 24-Hour Urine Specimens in Special Instructions for multiple collections.

SPECIMEN STABILITY INFORMATION:

Specimen Type	Temperature	Time
Urine	Refrigerated (preferred)	14 days
	Ambient	72 hours
	Frozen	14 days

RECOMMENDED ALTERNATIVE TEST:

MAGNESIUM, SERUM

Test ID: MGS

METHOD: Colorimetric Assay

REFERENCE VALUES:

0-2 years: 1.6-2.7 mg/dL

3-5 years: 1.6-2.6 mg/dL

6-8 years: 1.6-2.5 mg/dL

9-11 years: 1.6-2.4 mg/dL

12-17 years: 1.6-2.3 mg/dL

>17 years: 1.7-2.3 mg/dL

SPECIMEN REQUIREMENTS:

Container/Tube:

Preferred: Serum gel

Acceptable: Red top

Specimen Volume: 0.5 mL

Collection Instructions:

1. See Trace Metals Analysis Specimen Collection and Transport in Special Instructions for complete instructions.

2. Serum gel tubes should be centrifuged within 2 hours of collection.

3. Red-top tubes should be centrifuged and aliquoted within 2 hours of collection.

Additional Information: If other metal tests are also desired when drawing for a serum magnesium level; the specimen must be drawn in a plain, royal blue-top Vacutainer plastic trace element blood collection tube (T184).

SPECIMEN STABILITY INFORMATION:

Specimen Type	Temperature	Time
Serum	Refrigerated (preferred)	7 days
	Frozen	365 days

QUESTIONS: Contact Mary Erath, MML Referrals Supervisor
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