

MAGNESIUM
24-HOUR
URINE

Orderable – MGU24

Turn Around Time: 24 hours

Specimen:

24-hours of urine collected in 24-hour urine container

Collection Information:

[Collection of 24-Hour Urine Sample](#)

Please complete the laboratory label attached to the collection bottle to include patient's name, collection start time and date and collection end time and date.

Reference Ranges:

24-hour urine:
2.50-8.50 mmol/24h

Interpretive Comments:

Useful to confirm suspected urinary magnesium loss, evaluate magnesium metabolism, abnormal serum magnesium concentrations, electrolyte status and in the workup of nephrolithiasis.

Urinary excretion of magnesium is diet dependent.

Low urine magnesium:

In states of hypomagnesaemia decreased urinary magnesium indicates a non-renal cause:

decreased dietary magnesium (malabsorption, acute and chronic alcoholism, long-term parenteral therapy), dehydration and volume depletion, diabetic acidosis, hypocalcaemia, Addison's disease, hypothyroidism, and hyperparathyroidism.

High urine magnesium:

Chronic glomerulonephritis, aldosteronism, Bartter's syndrome, and drug therapy (corticosteroids, cyclosporine, thiazide diuretics).



Laboratory:
Core Lab



Requisition:
GENERAL LABORATORY
REQUISITION



Method of Analysis:
Colorimetric end point



Test Schedule:
As required

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Comments:

Reference Ranges are based on Non-Occupationally exposed population.