



Magnesium

Version: 1

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Summary: Procedure used to determine the concentration of magnesium in blood, serum, and plasma. Magnesium is measured as the chlorophosphonazo III complex (addition of EGTA prevents calcium interference) and monitored at 600 nm.

Reagents and Materials:

Reagent/Material	Vendor	Stock Number
Magnesium Reagent	Prolabs	125-12
Magnesium Calibrator	Prolabs	125-12

Protocol: Analysis by automated system Cobas Mira Plus

- 1) Calibrate Cobas for Magnesium analysis by running the Magnesium Calibrator and a Water Blank.
- 2) Sample handling as performed by the Cobas Mira Plus
 - a) Pipette 4 μ L of sample into a cuvette slot.
 - b) Add 350 μ L of Magnesium Reagent.
 - c) Mixture is incubated at 37°C for 10 minutes
 - d) Absorbance is measured at 600 nm.

Reagent Preparation:

Magnesium Reagent: As supplied by vendor

Magnesium Calibrator: As supplied by vendor