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Yale - Magnesium

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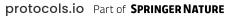


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Protocol status: Working

We use this protocol and it's working

Created: March 12, 2019

Last Modified: May 17, 2019

Protocol Integer ID: 21337

Keywords: Magnesium, magnesium summary, concentration of magnesium, magnesium, chlorophosphonazo iii complex, calcium, calcium interference, concentration, addition of egta

Abstract

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.

Materials

MATERIALS

Magnesium Reagent Prolabs(cliniqa) Catalog #125-12

Magnesium Calibrator **Prolabs(cliniqa) Catalog #**125-12

Reagent Preparation:

Magnesium Reagent: As supplied by vendor

Magnesium Calibrator: As supplied by vendor

Troubleshooting

Before start

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 μL of sample into a cuvette slot.
 - b) Add 350 μL of Magnesium Reagent.
 - c) Mixture is incubated at 37°C for 10 minutes
 - d) Absorbance is measured at 600 nm.