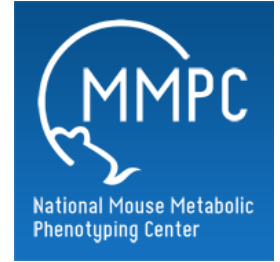


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Yale - Blood or Urine Calcium

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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: 21326

Keywords: Blood or Urine Calcium

Abstract

Summary:

Procedure used to determine the concentration of calcium in blood, serum, and plasma. Calcium is measured as the complex with arsenazo III and monitored at 600nm.

Materials

MATERIALS

 Calcium Liquid Reagent **Prolabs(cliniqa) Catalog #R85188**

 Multi Analyte Calibrator **Prolabs(cliniqa) Catalog #R60010**

 Assayed Control Serum 1 **Prolabs(cliniqa) Catalog #R83082**

 Assayed Control Serum 2 **Prolabs(cliniqa) Catalog #R83083**

Reagent Preparation:

Calcium Liquid Reagent: As supplied by vendor.

Multi Analyte Calibrator: Add the appropriate amount of water (6.5mL) to the chemical control bottle. Invert to mix, allowing 15 minutes for the reagent to settle.

Assayed Control Serum 1: Add the appropriate amount of water (6.5mL) to the chemical control bottle. Invert to mix, allowing 15 minutes for the reagent to settle.

Assayed Control Serum 2: Add the appropriate amount of water (6.5mL) to the chemical control bottle. Invert to mix, allowing 15 minutes for the reagent to settle.

Before start

Analysis by automated system Cobas Mira Plus



- 1 Calibrate Cobas for Calcium analysis by running a multi analyte standard and two assayed control serum.

- 2 Sample handling as performed by the Cobas Mira Plus.
 - a) Pipette 5 μ L of sample into a cuvette slot.
 - b) Add 180 μ L of Calcium Liquid Reagent.
 - c) Mixture is incubated at 37°C and spun for 10 minutes.
 - d) Absorbance is measured at 650nm.