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Yale - Blood or Urine Calcium

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OPEN ACCESS

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Protocol status: Working
We use this protocol and it's working

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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.

Keywords: Blood or Urine
Calcium

MATERIALS

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☒ 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 INSTRUCTIONS

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 5µL of sample into a cuvette slot.
 - b) Add 180 µL of Calcium Liquid Reagent.
 - c) Mixture is incubated at 37°C and spun for 10 minutes.
 - d) Absorbance is measured at 650nm.