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Yale - Blood and Urine Inorganic Phosphorous

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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 inorganic phosphorus in blood, serum, and plasma. Phosphorus (Inorganic) is measured as the complex with molybdate and monitored at 340nm.

Materials

MATERIALS

⊗ Phosphorus Reagent **Prolabs(cliniqa) Catalog #R85562**

⊗ 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:

Phosphorus 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.

Troubleshooting

Before start

Analysis by automated system Cobas Mira Plus



- 1 Calibrate Cobas for Phosphorus analysis by running a multi-analyte serum calibrator and two control serum.
- 2 Sample handling as performed by Cobas Mira Plus
 - a) Pipette 3 μ L of sample into cuvette.
 - b) Add 280 μ L of Phosphorus Liquid Reagent.
 - c) Mixture is incubated at 37°C for 10 minutes
 - d) Absorbance is measured at 340nm.