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

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.

BEFORE START INSTRUCTIONS

*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 µL of sample into cuvette.
   b) Add 280 µL of Phosphorus Liquid Reagent.
   c) Mixture is incubated at 37°C for 10 minutes
   d) Absorbance is measured at 340nm.