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# Yale - Total Protein

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Protocol status: Working

We use this protocol and it's working

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### Abstract

#### **Summary:**

Procedure to determine the total protein concentration in blood, serum, and plasma. Total Protein is determined by the biuret reaction.

# **Materials**

#### **MATERIALS**

- Total Protein Reagent **Prolabs(cliniqa) Catalog** #R84086
- 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:**

Total Protein 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 Total Protein analysis by running a multi-analyte calibrator and two control serum.
- 2 Sample handling as performed by Cobas Mira Plus
  - a) Pipette 5µL of sample into cuvette.
  - b) Add 150 µL of Total Protein Reagent.
  - c) Incubate at 37°C for 10 minutes
  - d) Absorbance is measured at 550nm