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## Yale - Blood Albumin

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**Protocol status:** Working

**We use this protocol and it's working**

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**Keywords:** Blood Albumin, concentration of albumin, blood albumin summary, albumin, concentration, serum, blood plasma, bromocresol green, blood, conjugate with bromocresol green

## Abstract

### Summary:

Procedure used to determine the concentration of albumin in blood, plasma, and serum. Albumin is measured as its conjugate with bromocresol green monitored at 600 nm.

## Materials

### MATERIALS

 Albumin Standard Prolabs(cliniqa) Catalog #R85260

 Albumin Reagent Prolabs(cliniqa) Catalog #R85211

 Assayed Control Serum 1 Prolabs(cliniqa) Catalog #R83082

 Assayed Control Serum 2 Prolabs(cliniqa) Catalog #R83083

### Reagent Preparation:

**Albumin Standard:** As supplied by vendor

**Albumin Reagent:** As supplied by vendor

**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 Albumin analysis by running an albumin standard, assayed control serum 1 and assayed control serum 2.
- 2 Sample handling as performed by the Cobas Mira Plus.
  - a) Pipette 2 $\mu$ L of sample into a cuvette slot.
  - b) Add 250  $\mu$ L of Albumin reagent and mix.
  - c) Mixture is incubated at 37°C and spun for 10 minutes.
  - d) Absorbance is measured at 600 nm.