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Yale - Triglycerides

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Protocol status: Working

We use this protocol and it's working

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Keywords: Triglycerides, triglycerides summary, concentration of triglyceride, triglyceride, glycerol phosphate oxidase, coupling lipase, serum, quinonemine dye

Abstract

Summary:

Procedure used to determine the concentration of triglycerides in blood, serum, and plasma. Triglycerides are determined by coupling lipase, glucokinase, glycerol phosphate oxidase, and peroxidase to form a quinonemine dye which is measured at 500 nm.

Materials

MATERIALS

⊗ Triglyceride Reagent and Activator **Cliniqa Catalog #R85457**

⊗ 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:

Triglyceride Reagent: Add 40mL of Triglyceride Activator to the Reagent bottle.

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 Triglyceride analysis by running a multi-analyte calibrator and two control serum.
- 2 Sample handling as performed by Cobas Mira Plus.
 - a) Pipette 4 μL of sample into cuvette.
 - b) Add 275 μL of Triglyceride liquid reagent.
 - c) Incubate at 37°C for 10 minutes.
 - d) Absorbance is measured at 500nm.