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Yale - LDL Cholesterol

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Protocol status: Working

We use this protocol and it's working

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Keywords: LDL Cholesterol, ldl cholesterol summary, ldl cholesterol, concentration of ldl cholesterol, assay of ldl, total cholesterol, ldl, cholesterol, hdl

Abstract

Summary:

Procedure used to determine the concentration of LDL cholesterol in blood, serum, and plasma. LDL-cholesterol is determined by an elimination method to selectively remove HDL, VLDL, and IDL subfractions prior to assay of LDL-cholesterol as described for total cholesterol.

Materials

MATERIALS

 Lipid Calibrator **Prolabs(cliniqa) Catalog #R85528**

 LDL Direct Reagent 1 **Prolabs(cliniqa) Catalog #R85556**

 LDL Direct Reagent 2 **Prolabs(cliniqa) Catalog #R85556**

Reagent Preparation:

LDL Direct Reagent 1: As supplied by vendor.

LDL Direct Reagent 2: As supplied by vendor.

Lipid Calibrator: Add 1mL of water to lipid calibrator bottle. Invert to mix, allowing 15 minutes for the reagent to settle. For the calibration, prepare serial dilutions.

Before start

Analysis by automated system Cobas Mira Plus

- 1 Calibrate Cobas for LDL by running dilutions of the lipid calibrator and the addition of the two direct reagents.
- 2 Sample handling as performed by the Cobas Mira Plus.
 - a) Pipette 3 μL of sample into a cuvette slot.
 - b) Add 225 μL of LDL Direct Reagent 1.
 - c) Add 75 μL of LDL Direct Reagent 2.
 - d) Mixture is incubated at 37°C and spun for 10 minutes.
 - e) Absorbance is measured at 600 nm.