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U Mass - Cholesterol (Total)

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Protocol status: Working

We use this protocol and it's working

Created: February 06, 2019

Last Modified: May 10, 2019

Protocol Integer ID: 20068

Keywords: total cholesterol, cardiovascular disease, total cholesterol, serum levels of total cholesterol, using roche cobas clinical chemistry analyzer, cholesterol metabolism, roche cobas clinical chemistry analyzer, cholesterol, spectrophotometric measurement, serum level, cardiovascular disease, serum, metabolism

Abstract

Summary:

This experiment involves a spectrophotometric measurement using Roche Cobas Clinical Chemistry Analyzer. Serum levels of total cholesterol reflect cholesterol metabolism and are associated with cardiovascular disease.

Materials

MATERIALS

⊗ Cholesterol Plus 2nd gen **Roche Catalog #05401682 190**

⊗ Calibrator f.a.s. Lipids **Roche Catalog #12172623 160**

⊗ Precinorm L **Roche Catalog #10781827 122**

⊗ Precipath HDL/LDL-C **Roche Catalog #11778552 122**

⊗ NaCl Diluent 9% **Roche Catalog #04774230 190**

⊗ Cleaner **Roche Catalog #04774248 190**

⊗ Micro Sample cups **Roche Catalog #11406680 001**

⊗ NERL High Quality Water **Fisher Scientific Catalog #9805**

Note:

Roche, RRID:SCR_001326

Fisher Scientific, RRID:SCR_008452



Before start

Notes:

- ✓ Try to use freshly prepared serum and plasma samples for this assay.
- ✓ No dilution or treatment of the sample is required, but plasma samples should be centrifuged to remove any fibrin/fibrinogen clumps.
- ✓ Samples should be stored at 2-8°C for 24 hours prior to analysis. For longer periods, store samples at -70°C, and avoid repeated freeze/thaw cycles.
- ✓ A 50 µl dead volume is required in addition to sample volume for multi-protein analysis (typically 1-5 µl).



- 1 Perform daily quality control assessment of instrumentation before analysis.
- 2 Load each sample into a specialized micro-sample cup for the clinical chemistry analyzer.
- 3 Select Cholesterol (Total) test on display and run the analysis.
- 4 Collect and analyze the data.