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U Mass - Cholesterol (LDL)

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Protocol status: Working

We use this protocol and it's working

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Keywords: LDL-cholesterol, cardiovascular disease

Abstract

Summary:

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

Materials

MATERIALS

 LDL 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 μ l dead volume is required in addition to sample volume for multi-protein analysis (typically 1-5 μ l).



- 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 (LDL) test on display and run the analysis.

- 4 Collect and analyze the data.