

Cholesterol (Total)

Version: 1

Edited by: Jason Kim

(note that the following list should be linked to the appropriate location.)

Summary

Reagents and Materials

Protocol

Reagent Preparation

Reagent 1

Reagent 2

Reagent 3

Summary: (This area will include a brief description of what the protocol is used for and why someone would need to use it.)

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.

Reagents and Materials: (This should be a comprehensive list of stock solutions and material. The reagent list for the stock solutions is included in the reagent preparation area that is included at the end of this SOP.)

Reagent/Material	Vendor	Stock Number
Cholesterol Plus 2nd gen		05401682 190
Calibrator f.a.s. Lipids		12172623 160
Precinorm L		10781827 122
Precipath HDL/LDL-C		11778552 122
	Roche	
NaCl Diluent 9%		04774230 190
Cleaner		04774248 190
Micro Sample cups		11406680 001
LDL Cholesterol Plus		
2nd gen		05401682 190
NERL High Quality		
Water	Fisher	9805

Protocol:

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.