MAY 10, 2019

U Mass - Cholesterol (Total)

Jason Kim¹

¹University of Massachusetts

Mouse Metabolic Phenotyping Centers
Tech. support email: info@mmpc.org

Lili Liang

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.xucfnsw

External link:
<https://mmpc.org/shared/document.aspx?id=169&docType=Protocol>

Protocol Citation: Jason Kim 2019. U Mass - Cholesterol (Total). **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.xucfnsw>

License: This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working
We use this protocol and it's working

Created: Feb 06, 2019

Last Modified: May 10, 2019

PROTOCOL integer ID:
20068

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](https://pubchem.ncbi.nlm.nih.gov/compound/Roche)
Fisher Scientific, [RRID:SCR_008452](https://pubchem.ncbi.nlm.nih.gov/compound/Fisher_Scientific)

Keywords: total cholesterol,
cardiovascular disease

BEFORE START INSTRUCTIONS

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.