MAY 10, 2019

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.xt6fnre

External link:
<https://mmpc.org/shared/document.aspx?id=170&docType=Protocol>

Protocol Citation: Jason Kim 2019. U Mass - Cholesterol (HDL). **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.xt6fnre>

License: This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](#), 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:
 20062

U Mass - Cholesterol (HDL)

Jason Kim¹

¹University of Massachusetts

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

Lili Liang

ABSTRACT

Summary:

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

MATERIALS

MATERIALS

- ⊗ HDL Cholesterol Plus 3rd gen **Roche Catalog # 05401488 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](#)

Keywords: HDL-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 (HDL) test on display and run the analysis.
- 4 Collect and analyze the data.