MAY 10, 2019

U Mass - Bilirubin

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.xscfnaw

External link:

<https://mmpc.org/shared/document.aspx?id=182&docType=Protocol>

Protocol Citation: Jason Kim 2019. U Mass - Bilirubin.

protocols.io

<https://dx.doi.org/10.17504/protocols.io.xscfnaw>

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 05, 2019

Last Modified: May 10, 2019

PROTOCOL integer ID: 20004

ABSTRACT

Summary:

This experiment involves a spectrophotometric measurement using Roche Cobas Clinical Chemistry Analyzer. Serum levels of bilirubin reflect bile acid metabolism.

MATERIALS

MATERIALS

- ☒ Total Bilirubin Special Roche Catalog #04774256 160
- ☒ Calibrator f.a.s. Roche Catalog #10759350 360
- ☒ Precinorm U Plus Roche Catalog #12149435 160
- ☒ Precipath U Plus Roche Catalog #12149443 160
- ☒ 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: Bilirubin, spectrophotometric measurement, bile acid metabolism

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 Bilirubin test on display and run the analysis.
- 4 Collect and analyze the data.