ABSTRACT

Summary:

This experiment involves a spectrophotometric measurement using Roche Cobas Clinical Chemistry Analyzer. Triglyceride levels may be measured in serum, plasma, and tissue samples. Serum and tissue triglyceride levels are affected by alterations in systemic lipid metabolism, lipid digestion/absorption, and lipid clearance. Serum and tissue triglyceride levels are altered in obesity, insulin resistance, type 2 diabetes, alcoholic steatohepatitis, non-alcoholic fatty liver disease, and non-alcoholic steatohepatitis.

MATERIALS

- Triglycerides Roche Catalog #04657594 190
- Calibrator f.a.s. Roche Catalog #10759350 360
- Precinorm U plus Roche Catalog #12149435 160
- Precipath U plus Roche Catalog #12149443 160
- NaCl Diluent 9 % Roche Catalog #04774230 190
- Chimneys Roche Catalog #11930630 001
- 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

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

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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 Triglyceride test on display and run the analysis.

4 Collect and analyze the data.