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U Mass - Aspartate Transferase

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Protocol status: Working

We use this protocol and it's working

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Keywords: aspartate transferase, spectrophotometric measurement



Abstract

Summary:

This experiment involves a spectrophotometric measurement using Roche Cobas Clinical Chemistry Analyzer. Serum levels of aspartate transferase reflect liver function.

Materials

MATERIALS

- Aspartate amino- transferase (ALTL) Roche Catalog #04657543 190
- Pyridoxal Phosphate Roche Catalog #04774221 190
- X 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
- Cleaner Roche Catalog #04774248 190
- Micro Sample cups Roche Catalog #11406680 001
- X NERL High Quality Water Fisher Scientific Catalog #9805

Note:

Roche, RRID:SCR_001326

Fisher Scientific, RRID:SCR_008452

Before start

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