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U Mass - Total protein

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Protocol status: Working

We use this protocol and it's working

Created: February 14, 2019

Last Modified: May 10, 2019

Protocol Integer ID: 20360

Keywords: spectrophotometric measurement, system protein metabolism, total protein summary, serum levels of total protein, total protein, systemic protein metabolism, protein metabolism, systemic protein, using roche cobas clinical chemistry analyzer, roche cobas clinical chemistry analyzer, serum level, serum, spectrophotometric measurement

Abstract

Summary:

This experiment involves a spectrophotometric measurement using Roche Cobas Clinical Chemistry Analyzer. Serum levels of total protein reflect systemic protein metabolism.

Materials

MATERIALS

- ⊗ Total Protein Gen.2 Roche Catalog #04657586 190
- ⊗ Calibrator f.a.s. Roche Catalog # 10759350 360
- ⊗ Precinorm U plus Roche Catalog # 12149435 160
- ⊗ Precipath U plus Roche Catalog #12149443 160
- ⊗ Precinorm Protein Roche Catalog # 10557897 160
- ⊗ Precipath Protein Roche Catalog #11333127 160
- ⊗ NaCl Diluent 9 % Roche Catalog #04774230 190
- ⊗ Chimneys Roche Catalog # 11930630 001
- ⊗ Cleaner Roche Catalog #04774248 190
- ⊗ 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 Total protein test on display and run the analysis.
- 4 Collect and analyze the data.