



Total protein

Version: 1
 Edited by: Jason Kim

(note that the following list should be linked to the appropriate location.)

- [Summary](#)
- [Reagents and Materials](#)
- [Protocol](#)
- [Reagent Preparation](#)
 - [Reagent 1](#)
 - [Reagent 2](#)
 - [Reagent 3](#)

Summary: *(This area will include a brief description of what the protocol is used for and why someone would need to use it.)*

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

Reagents and Materials: *(This should be a comprehensive list of stock solutions and material. The reagent list for the stock solutions is included in the reagent preparation area that is included at the end of this SOP.)*

Reagent/Material	Vendor	Stock Number
Total Protein Gen.2	Roche	04657586 190
Calibrator f.a.s.		10759350 360
Precinorm U plus		12149435 160
Precipath U plus		12149443 160
Precinorm Protein		10557897 160
Precipath Protein		11333127 160
NaCl Diluent 9 %		04774230 190
Chimneys		11930630 001
Cleaner		04774248 190
NERL High Quality Water	Fisher	9805

Protocol:

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.