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U Mass - Alkaline Phosphatase

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

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19923

ABSTRACT

Summary:

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

MATERIALS

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- ⊗ Alkaline phosphatase acc. to IFCC Gen.2 Roche Catalog #04657373 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
- ⊗ Cleaner Roche Catalog #04774248 190
- ⊗ Micro Sample cups Roche Catalog #11406680 001
- ⊗ Chimneys Roche Catalog #11930630 001
- ⊗ NERL High Quality Water Fisher Scientific Catalog #9805

Note:

Roche, [RRID:SCR_001326](https://pubchem.ncbi.nlm.nih.gov/compound/Alkaline-phosphatase)
Fisher Scientific, [RRID:SCR_008452](https://pubchem.ncbi.nlm.nih.gov/compound/High-purity-water)

Keywords: alkaline
phosphatase, liver function

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 Alkaline Phosphatase test on display and run the analysis.
- 4** Collect and analyze the data.