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U Mass - Lactate dehydrogenase

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Protocol status: Working

We use this protocol and it's working

Created: February 12, 2019

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Keywords: spectrophotometric measurement, Lactate dehydrogenase, lactate dehydrogenase summary, using roche cobas clinical chemistry analyzer, roche cobas clinical chemistry analyzer

Abstract

Summary:

This experiment involves a spectrophotometric measurement using Roche Cobas Clinical Chemistry Analyzer.

Materials

MATERIALS

⊗ Lactate Dehydrogenase acc. to IFCC ver.2 **Roche Catalog #05401674 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

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 Lactate dehydrogenase test on display and run the analysis.
- 4 Collect and analyze the data.