MAY 10, 2019

U Mass -Lactate

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OPEN ACCESS

DOI:

dx.doi.org/10.17504/protocols.io.x5ufq6w

External link:

<https://mmpc.org/shared/document.aspx?id=161&docType=Protocol>

Protocol Citation: Jason Kim 2019. U Mass -Lactate. **protocols.io**

<https://dx.doi.org/10.17504/protocols.io.x5ufq6w>

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

Created: Feb 14, 2019

Last Modified: May 10, 2019

PROTOCOL integer ID:
20372

ABSTRACT

Summary:

This experiment involves a spectrophotometric measurement using Roche Cobas Clinical Chemistry Analyzer. Serum lactate levels are affected by alterations in glucose and protein metabolism.

MATERIALS

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- ⊗ Lactate Gen.2 Roche Catalog #05401666 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
- ⊗ NERL High Quality Water Fisher Scientific Catalog #9805

Note:

Roche, [RRID:SCR_001326](#)

Fisher Scientific, [RRID:SCR_008452](#)

Keywords: Lactate, glucose and protein metabolism

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