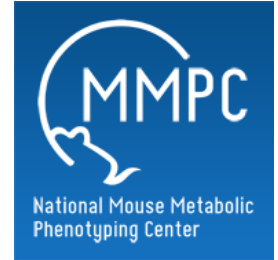


May 10, 2019

U Mass -Lactate

DOI

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



Jason Kim¹

¹University of Massachusetts

Mouse Metabolic Phenotyping Centers
Tech. support email: info@mmpc.org



Lili Liang

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://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>

License: This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](#), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working

Created: February 14, 2019

Last Modified: May 10, 2019

Protocol Integer ID: 20372

Keywords: Lactate, glucose and protein metabolism, serum lactate level, using roche cobas clinical chemistry analyzer, roche cobas clinical chemistry analyzer, alterations in glucose, glucose, protein metabolism, serum, spectrophotometric measurement,

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

MATERIALS

⊗ 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](#)



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