



May 10, 2019

U Mass - Creatine Kinase

DOI

dx.doi.org/10.17504/protocols.io.xumfnu6



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DOI: dx.doi.org/10.17504/protocols.io.xumfnu6

External link: <https://mmpc.org/shared/document.aspx?id=176&docType=Protocol>

Protocol Citation: Jason Kim 2019. U Mass - Creatine Kinase. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.xumfnu6>

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Protocol status: Working

We use this protocol and it's working

Created: February 06, 2019

Last Modified: May 10, 2019

Protocol Integer ID: 20077

Keywords: Creatine Kinase, spectrophotometric measurement



Abstract

Summary:

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

Materials

MATERIALS

- ✕ Creatine Kinase **Roche Catalog #05401593 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 Creatine Kinase test on display and run the analysis.
- 4 Collect and analyze the data.