

CREATININE ASSAY KIT

Catalog number

Creatinine Assay Kit.....80189

Intended use

A high quality enzymatic assay for the quantification of creatinine in human serum and urine.

Test principle

Crystal Chem's Creatinine kit is a quick, easy to use enzymatic procedure. The enzymatic assay for mouse creatinine involves a series of enzymatic reactions including enzymatic conversion of creatinine into creatine which is then converted to sarcosine. This is followed by the oxidation of sarcosine to produce hydrogen peroxide. In the presence of peroxidase, the hydrogen peroxide can then be quantified at 550 nm and a quantitative determination of creatinine can be made.

Specifications

Sample Types	Serum, Urine
Assay Time	15 minutes
Range (Serum)	0.15 - 13.5 mg/dL
Range (Urine)	0.15 - 141 mg/dL
Sample Size	8 μ L
Precision	CV < 10%
Sensitivity	0.15 mg/dL

Optional Control

Control for Creatinine Assay Kit.....Cat# 80183

Highlights

- ✓ Kit uses < 10 μ L sample
- ✓ Fast assay time (15 minutes)
- ✓ Adaptable to range of instruments
- ✓ Optimized for rat samples

Summary of protocol

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graph TD
    A[Add 8  $\mu$ L of sample] --> B[Add 270  $\mu$ L sarcosine oxidase solution]
    B --> C[Incubate for 5 minutes at 37 °C]
    C --> D[Measure OD at 550 nm]
    D --> E[Add 90  $\mu$ L peroxidase solution]
    E --> F[Incubate for 5 minutes at 37 °C]
    F --> G[Measure OD at 550 nm]
  
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