

Creatine Assay Kit

Cat. No. Kit-0259 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Creatine Assay Kit is used for measuring creatine.

Description

Creatine is an endogenous compound whose function is to maintain a high ATP/ADP ratio, by way of its phosphorylated form and creatine kinase. Creatine supplementation has been used in the treatment of muscular, neurological and neurodegenerative diseases, as well as a sport performance enhancer. Detection of creatine level has wide applications in research and development. The Creatine Assay Kit provides an accurate, convenient measure of creatine in a variety of biological samples. In the assay, creatine is enzymatically converted to sarcosine which is then specifically oxidized to generate a product that converts a colorless probe to an intensely red color ($\lambda_{max} = 570 \text{ nm}$), and highly fluorescent ($Ex/Em = 538/587 \text{ nm}$) product. Creatine is therefore easily detected by either colorimetric or fluorometric methods. Detection range 0.001-10 mM Creatine.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store the kit at -20°C .

Kit Components

Creatine Assay Buffer 25 mlCreatine Probe* (in DMSO) 0.2 mlCreatinase: lyophilized. 1 vialCreatine Enzyme mix: lyophilized. 1 vialCreatine Standard (10 μmol): lyophilized. 1 vial* Note: The fluorometric assay is ~10 times more sensitive than the colorimetric assay. Use 0.4 μl of the probe per reaction to decrease

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background/increase detection sensitivity significantly.

Detection method

Colorimetric, Fluorometric

**Compatible Sample
Types**

Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture
Supernatant, Urine

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