

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 ($\lambda_{\text{max}} = 570 \text{ nm}$), and highly fluorescent (Ex/Em = 538/587 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

background/increase detection sensitivity significantly.

Detection method	Colorimetric, Fluorometric
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Compatible Sample Types	Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine
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