

Creatinine Assay Kit

Cat. No. Kit-0261 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Creatinine Assay Kit is used for measuring creatine concentration.
Description	Creatinine is a breakdown product of creatine phosphate. Creatinine is produced and excreted at a constant rate, and blood creatinine is used to determine glomerular filtration rate (GFR), a measure of kidney function. Blood creatinine levels increase only in cases of significant (>75%) damage to nephrons. Creatinine clearance is frequently used as a means of standardizing excretion of other compounds such as isoprostanes. Creatinine Assay Kit provides an accurate, convenient measure of creatine concentration in biological fluids such as serum, urine or CSF. In the assay, creatinine is converted to creatine by creatininase, creatine is converted to sarcosine, which is specifically oxidized to produce a product which reacts with a probe to generate red color (OD 570 nm) and fluorescence (Ex/Em = 538/587 nm). Unlike the picric acid assay, this kit is suitable for serum/plasma creatinine determinations, as well as for urine and other biological samples.
Applications	Measurement of creatinine in biological fluids.
Target Species	Mammals
Usage	For research use only (RUO)
Storage	Store kit at -20°C, protect from light. Briefly centrifuge vials prior to opening. Reading entire protocol before performing the assay.
Kit Components	Creatinine Assay Buffer 25 mL Creatinine Probe 0.2 mL Creatinase 1 vial Creatininase:

 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

	lyophilized. 1 vialCreatinine Enzyme Mix: lyophilized. 1 vialCreatinine (10 µmol): lyophilized 1 vial
Detection method	Colorimetric, Fluorometric
Compatible Sample Types	Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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