

Creatine colorimetric/fluorimetric Assay Kit

Cat. No. Kit-0260 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Creatine Assay Kit is a quantitative colorimetric/fluorimetric determination of creatine.
Description	CREATINE is present in vertebrates and helps to supply energy to muscle. In humans and animals, approximately half of creatine originates from food (mainly from fresh meat). Creatine supplementation has been investigated as a possible therapeutic approach for the treatment of muscular, neuromuscular, neurological and neurodegenerative diseases. Simple, direct and automation-ready procedures for measuring creatine are popular in research and drug discovery. Creatine Assay Kit is based on enzymatic reactions leading to formation of a pink colored product. The optical density at 570 nm or fluorescence intensity at $\lambda_{em}/\lambda_{ex} = 590/530$ nm is directly proportional to the creatine concentration in the sample.
Applications	Direct Assays: creatine in biological samples (e.g. serum, plasma, urine, saliva etc).
Usage	For research use only (RUO)
Storage	Store all components at -20°C. Shelf life: 12 months after receipt.
Kit Components	Assay Buffer 20 mL Enzyme A 120 μ L Enzyme B 220 μ L Standard: 20 mM creatine 400 μ L Dye Reagent 220 μ L
Detection method	Colorimetric, Fluorometric
Compatible Sample Types	Plasma, Saliva, Serum, Urine

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Features & Benefits

High sensitivity and wide linear range. Use 10 μ L sample. Linear detection range 4 to 1000 μ M (colorimetric) or 0.5 to 50 μ M (fluorimetric). Homogeneous and simple procedure. Simple "mix-and-measure" procedure allows reliable quantitation of creatine within 30 minutes.

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