

Creatinine (Cr) Colorimetric Assay Kit (Sarcosine Oxidase Method)

Cat No: HR3BC1224

For research use only

Overview

Detection Method	Colorimetric method
Storage	2-8?
Instrument	Microplate reader(510-520 nm,optimum wavelength: 515 nm)
Assay Time	30 min
Validity	3
Assay Type	Quantitative
Sample Type	Serum,plasma,urine
Synonyms	Cr
Instrument	Microplate reader(510-520 nm,optimum wavelength: 515 nm)
Detection Principle	Creatinine (Cr) can be catalyzed by creatinase and generates creatine. Creatine can be hydrolyzed into sarcosine and urea by creatinase. The sarcosine can be catalyzed by sarcosine oxidase and form glycine, formaldehyde and hydrogen peroxide. The reaction between hydrogen peroxide, 2,4-(6-Tri-iodine-3- hydroxybenzoic acid) and 4-ampyrone can be catalyzed by peroxidase and form pink compound. Creatinine content can be calculated indirectly by measuring the OD value at 515 nm.
Reagents	Normal saline (0.9% NaCl)
Labware	Micropipettor, Centrifuge, Incubator, Vortex mixer
Size	96T
Sensitivity	9.4 ?mol/L
Detection Range	38.2-800 ?mol/L
Recovery Rate	106