

Creatinine (Cr) Assay Kit | Cr assay kit

Micro Creatinine (Cr)

CATALOG #
AAA332720

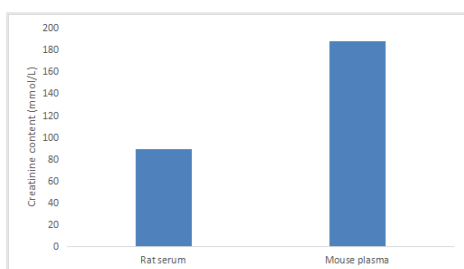
PRODUCT SYNONYMS

Creatinine (Cr); Micro Creatinine (Cr); Creatinine(Cr); Cr assay kit

PRODUCT SPECIFICATIONS

Samples	Serum, Plasma, Urine, and other liquid samples
Kit Components	Reagent I Reagent II Reagent III Reagent IV Reagent V Reagent VI Reagent VII Standard
Features & Benefits	The verified samples are complete in type and easy to operate.
Usage Notes	If not assayed immediately, samples can be stored at -80 degree C for one month. It is recommended to perform several dilutions of your sample to ensure the readings are within the standard value range. Fresh samples are necessary for good results. If don't perform the assay at the same time, it's better to complete the Sample Preparation step before storing the samples.
Preparation and Storage	Storage at -20 degree C and Keep from light immediately upon receipt. Kit has a storage time of 6 months from receipt. Refer to list of materials supplied for storage conditions of individual components. Shipping: Gel pack with blue ice.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for Cr assay kit	Creatinine is a metabolic byproduct of muscle metabolism in the human body and is primarily excreted through glomerular filtration by the kidneys. The sources of creatinine in the blood include both endogenous and exogenous components. Serum creatinine is almost entirely filtered through the glomeruli into the primary urine and is not reabsorbed by the renal tubules. The daily production of endogenous creatinine remains almost constant, and when the intake of exogenous creatinine is strictly controlled, the serum creatinine concentration reaches a stable value. Therefore, measuring the serum creatinine concentration can reflect the glomerular filtration function. Micro Creatinine (Cr) Content Assay Kit provides a simple, convenient, and rapid method for detecting creatinine content, suitable for liquid samples such as serum, plasma, urine, etc. The principle of this assay is based on the hydrolysis of creatinine to creatine by creatinine amidohydrolase. Creatine is then converted to sarcosine and urea by creatine amidohydrolase. Sarcosine, one of the products, is oxidized by sarcosine oxidase to generate sarcosine, hydrogen peroxide, and formaldehyde. Finally, the hydrogen peroxide reacts with chromogenic substrates 4-aminoantipyrine and N-ethyl-N-sulfopropyl-m-toluidine under the catalysis of peroxidase to produce a red quinimine compound. Since quinimine has a maximum absorption peak at a wavelength of 546 nm, within a certain concentration range, the change in absorbance at 546 nm is directly proportional to the creatinine content in the sample.
Product Categories/Family for Cr assay kit	Cell analysis; Cell metabolism detection kit

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/creatinine-cr/332720>