

Mouse Creatinine Assay Kit

Mouse Creatinine (Colorimetric) Assay Kit

CATALOG #
AAA17545

REACTIVITY
Mouse

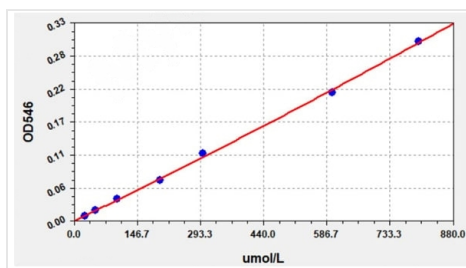
PRODUCT SYNONYMS

Creatinine; Mouse Creatinine (Colorimetric) Assay Kit; Cr; Creatinine assay kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of creatinine. No significant crossreactivity or interference between creatinine and analogues was observed.
Samples	Serum, plasma and urine
Detection Range	25-800umol/L
Sensitivity	10umol/L
Intra-assay Precision	CV<=6%
Inter-assay Precision	CV<=4%
Preparation and Storage	Store at 4 degree C if kit is to be used within 1 week. Stable for 6 months (if micro ELISA Plate, Lyophilized Standard and Concentrated Biotinylated Detection Protein stored at -20 degree C. Other components at 2-8 degree C). Stable for 12 months (if the entire kit is stored at -20 degree C).

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Creatinine assay kit	Background: Creatinine is a metabolite of phosphocreatine (p-creatine), a molecule used as a store for highenergy phosphate that can be utilized by tissues for the production of ATP. Creatine either comes from the diet or is synthesized from the amino acids arginine, glycine, and methionine. This occurs in the kidneys and liver, although other organ systems may be involved and species-specific differences may exist. Creatine and pcreatine are converted non-enzymatically to the metabolite creatinine, which diffuses into the blood and is excreted by the kidneys. In vivo, this conversion appears to be irreversible and in vitro it is favored by higher temperatures and lower pH. Creatinine forms spontaneously from pcreatine, and under normal conditions, its formation occurs at a relatively constant rate. Intra-individual variation of creatinine levels is <15% from day to day, making it a useful marker for normalizing levels of other molecules found in urine. Altered creatinine levels may be associated with conditions that result in decreased renal blood flow, such as diabetes and cardiovascular disease. Principle of the Assay: Creatinine is catalyzed by creatininase to form creatine, and creatine is catalyzed by creatinase to form sarcosine and urea, then sarcosine catalyzed by sarcosine oxidase to form glycine, formaldehyde and hydrogen peroxide. Hydrogen peroxide and chromogenic agent react under the catalysis of peroxidase to produce pink compound The creatinine content was calculated by ready the OD value at 546 nm(dominant wavelength)/700 nm (Deputy wavelength).
---	---

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mouse-assay-kits/creatinine/17545>