

General Arginine (Arg) CLIA Kit | Arg clia kit

General Arginine (Arg) CLIA Kit

CATALOG # AAA188453	REACTIVITY General	APPLICATIONS CLIA (Chemiluminescence Immunoassay)
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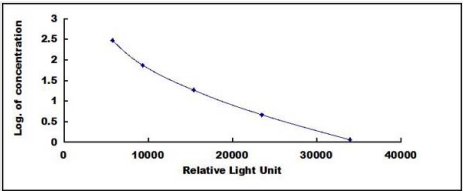
PRODUCT SYNONYMS

Arginine (Arg); General Arginine (Arg) CLIA Kit; Arginine; (S)-2-Amino-5-Guanidinopentanoic Acid; Arg clia kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of Arginine (Arg). No significant cross-reactivity or interference between Arginine (Arg) and analogues was observed.
Sequence Length	754
Assay Type	Competitive Inhibition
Samples	Serum, plasma, tissue homogenates and other biological fluids
Detection Range	1.17-300ug/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 0.44ug/mL
Applicable Applications for Arg clia kit	CLIA (Chemiluminescence Immunoassay)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Arginine (Arg) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Arginine (Arg) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	The microplate provided in this kit has been pre-coated with a monoclonal antibody specific to Arginine (Arg). A competitive inhibition reaction is launched between biotin labeled Arginine (Arg) and unlabeled Arginine (Arg) (Standards or samples) with the pre-coated antibody specific to Arginine (Arg). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Arginine (Arg) in the sample. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is reverse proportional to the Arginine (Arg) level in the sample or standard.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

NCBI GI #	1057487768
NCBI Official Full Name	arginine

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/general-clia-kits/arginine-arg/188453>