

General Aldosterone (ALD) CLIA Kit | ALD clia kit

General Aldosterone (ALD) CLIA Kit

CATALOG #
AAA161563

REACTIVITY
General

PRODUCT SYNONYMS

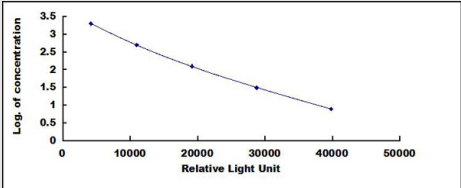
Aldosterone (ALD); General Aldosterone (ALD) CLIA Kit; ALD CLIA kit (General species); ALD clia kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of Aldosterone (ALD). No significant cross-reactivity or interference between Aldosterone (ALD) and analogues was observed. Reactive with General species ALD/Aldosterone
Assay Type	Competitive Inhibition
Samples	Serum, Plasma and other biological fluids
Detection Method	Chemiluminescence
Featured Series	CE kit
Detection Range	7.81-2,000pg/mL
Sensitivity	2.93pg/mL
Sample Size	50uL
Assay Time	2h
Function	Detects small molecule
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Aldosterone (ALD) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Aldosterone (ALD) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 50ul standard or sample to each well. And then add 50ul prepared Detection Reagent A immediately. Shake and mix. Incubate 1 hour at 37 degree C 3. Aspirate and wash 3 times 4. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 5. Aspirate and wash 5 times 6. Add 100ul Substrate Solution. Incubate 10 minutes at 37 degree C 7. Read RLU value immediately.
Test Principle	The microplate provided in this kit has been pre-coated with a monoclonal antibody specific to Aldosterone (ALD). A competitive inhibition reaction is launched between biotin labeled Aldosterone (ALD) and unlabeled Aldosterone (ALD)(Standards or samples) with the pre-coated antibody specific to Aldosterone (ALD). 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 Aldosterone (ALD) 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 Aldosterone (ALD) level in the sample or standard.

Research Area	Metabolic pathway, Endocrinology, Hormone metabolism
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) 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)
Typical Standard Curve for ALD CLIA (Competitive

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.