

Lysyl Oxidase (LOX) CLIA Kit | LOX clia kit

CLIA Kit for Lysyl Oxidase (LOX)

CATALOG #
AAA130332

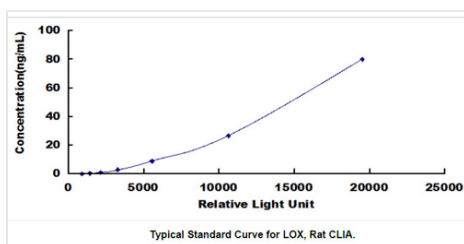
PRODUCT SYNONYMS

Lysyl Oxidase (LOX); CLIA Kit for Lysyl Oxidase (LOX); LOX clia kit

PRODUCT SPECIFICATIONS

Specificity	This assay has high sensitivity and excellent specificity for detection of LOX. No significant cross-reactivity or interference between LOX and analogues was observed.
Sequence Length	417
Intended Uses	The Chemiluminescent Immunoassay kit is designed for the in vitro sensitive quantitative measurement of LOX in rat serum, plasma, tissue homogenates and other biological fluids.
Detection Range	0.11-80ng/mL. The standard curve concentrations used for the CLIA's were 80ng/mL, 26.67ng/mL, 8.89ng/mL, 2.96ng/mL, 0.99ng/mL, 0.33ng/mL, 0.11ng/mL.
Sensitivity	The minimum detectable dose of LOX is typically less than 0.04ng/mL. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean RLU value of 20 replicates of the zero standard added by their two standard deviations.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level LOX were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level LOX were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
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)

ADDITIONAL INFORMATION

Related Product Information for LOX clia kit	Principle of the assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to LOX. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to LOX. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. 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 proportional to the LOX level in the sample or standard.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	257065
NCBI GeneID	4015
UniProt Accession #	P28300; Q5FWF0; B2R5Q3
Molecular Weight	46,944 Da
NCBI Official Full Name	lysyl oxidase
NCBI Official Synonym Full Names	lysyl oxidase
NCBI Official Symbol	LOX
NCBI Protein Information	protein-lysine 6-oxidase
UniProt Protein Name	Protein-lysine 6-oxidase
UniProt Gene Name	LOX
UniProt Entry Name	LYOX_HUMAN

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/clia-kits/lysyl-oxidase-lox/130332>