

Mouse alpha-Amylase ELISA Kit | AMS/AMY elisa kit

Mouse alpha-Amylase ELISA Kit

CATALOG #
AAA86326

REACTIVITY
Mouse

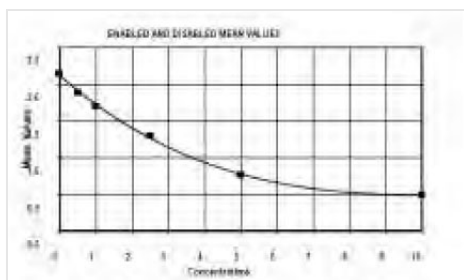
PRODUCT SYNONYMS

alpha-Amylase; Mouse alpha-Amylase ELISA Kit; a-Amylase; alpha-Amylase (Mouse); AMS/AMY elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Samples	Cell culture fluid, body fluid, tissue homogenate, serum and blood plasma
Preparation and Storage	Store all reagents at 2-8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for AMS/AMY elisa kit

For Samples: Cell culture fluid, body fluid, tissue homogenate, serum and blood plasma

Intended Uses: This AAM ELISA kit is intended for laboratory research use only. The stop solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration of AAM in the sample, this AAM ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versus AAM concentration. The concentration of in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Principle of the Assay: The coated well immunoenzymatic assay for the quantitative measurement of AAM utilizes a monoclonal anti-AAM antibody and an AAM-HRP conjugate. The assay sample and buffer are incubated together with AAM-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the AAM concentration since AAM from samples and AAM-HRP conjugate compete for the anti-AAM antibody binding site. Since the number of sites is limited, as more sites are occupied by AAM from the sample, fewer sites are left to bind AAM-HRP conjugate. Standards of known AAM concentrations are run concurrently with the samples being assayed and a standard curve is plotted relating the intensity of the color (Optical Density) to the concentration of AAM. The AAM concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	16131442
NCBI GeneID	948088
NCBI Accession #	NP_418028.1
NCBI GenBank Nucleotide #	NC_000913.2
UniProt Accession #	P25718; Q2M7N4
Molecular Weight	75,713 Da
NCBI Official Full Name	alpha-amylase
NCBI Official Symbol	maIS
NCBI Official Synonym Symbols	ECK3560; JW3543
NCBI Protein Information	alpha-amylase
UniProt Protein Name	Alpha-amylase
UniProt Gene Name	maIS
UniProt Entry Name	AMY1_ECOLI

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.