

Bovine Methylglyoxal ELISA Kit | MG elisa kit

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CATALOG #
AAA97472

REACTIVITY
Bovine

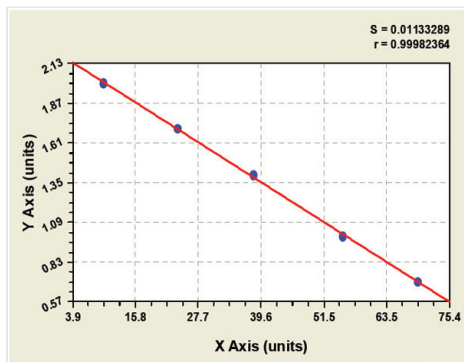
PRODUCT SYNONYMS

Methylglyoxal; Bovine Methylglyoxal ELISA Kit; MG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Bovine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Intended Uses	This Methylglyoxal ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Bovine Methylglyoxal. This ELISA kit for research use only, not for therapeutic applications
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Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MG elisa kit

Principle of the Assay: Methylglyoxal ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-Methylglyoxal antibody and an Methylglyoxal-HRP conjugate. The assay sample and buffer are incubated together with Methylglyoxal-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 Methylglyoxal concentration since Methylglyoxal from samples and Methylglyoxal-HRP conjugate compete for the anti-Methylglyoxal antibody binding site. Since the number of sites is limited, as more sites are occupied by Methylglyoxal from the sample, fewer sites are left to bind Methylglyoxal-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The Methylglyoxal concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	328949861
NCBI GeneID	10433215
NCBI Accession #	YP_004367196.1
NCBI GenBank Nucleotide #	NC_015387.1
Molecular Weight	13,616 Da
NCBI Official Full Name	methylglyoxal synthase
NCBI Official Symbol	Marky_0332
NCBI Protein Information	methylglyoxal synthase
UniProt Protein Name	Methylglyoxal synthase
UniProt Gene Name	mgsA
UniProt Synonym Gene Names	Marky_0332; MGS
UniProt Entry Name	F2NPY5_MARHT

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://www.aaabiotech.com/mg-bovine-ovine-elisa-kits/methylglyoxal/97472>