

Aflatoxin B1 ELISA Kit | AFB1 elisa kit

Aflatoxin B1 ELISA Kit

CATALOG #
AAA80091

PRODUCT SYNONYMS

Aflatoxin B1; Aflatoxin B1 ELISA Kit; AFB1 elisa kit

PRODUCT SPECIFICATIONS

Sequence Length	157
Samples	Feedstuff, feed, grain, edible oil
Assay Type	Quantitative Competitive
Detection Range	0.15 ug/kg~4.05 ug/kg
Sensitivity	< 0.15 ug/kg
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<10%. Three samples of known concentration were tested twenty times on one plate to assess.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

ADDITIONAL INFORMATION

Related Product Information for AFB1 elisa kit

Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. The microtiter plate provided in this kit has been pre-coated with Aflatoxin B1 antigen. Standards or samples are added to the appropriate microtiter plate wells with Aflatoxin B1 specific antibody and Horseradish Peroxidase (HRP) conjugated anti-antibody. The competitive inhibition reaction is launched between pre-coated Aflatoxin B1 and Aflatoxin B1 in standards or samples with the Aflatoxin B1 special antibody. A substrate solution is added to the wells and the color develops in opposite to the amount of Aflatoxin B1 in the standards or samples. The color development is stopped and the intensity of the color is measured.

Background/Introduction: Aflatoxins are toxic metabolites of the fungi species, such as *Aspergillus flavus* and *Aspergillus parasiticus*. Aflatoxins have a strong carcinogenicity, commonly found in cereal, nuts, cotton seed, human blood and animal feed. Aflatoxin B1 is mainly natural Aflatoxins contamination. Aflatoxins are listed as Category I carcinogen with strong carcinogenicity by the International Agency for Research on Cancer in 1993. Contamination can occur in the field, during growing, harvest, or in processing, storage and transport, detect timely pollution sources is the best way to prevent aflatoxin contamination. This kit is a detection product developed based on ELISA technology, with operation time as short as 25 min and a sensitivity of 0.15 ug/kg, and linear range from 0.15 ug/kg to 4.05 ug/kg.

NCBI AND UNIPROT INFORMATION

NCBI GI #	170677210
Molecular Weight	17,749 Da
NCBI Official Full Name	AFB1, partial

UniProt Protein Name	AFB1
UniProt Gene Name	AFB1
UniProt Entry Name	B2CSP1_ARATH

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://www.aaabiotech.com/elisa-kits/aflatoxin-b1/80091>