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Aflatoxin B1 | ELISA quantitation kit

Qty: AS20 4397

AS20 4397 | Reactivity: **Aflatoxin B1 from edible oil, feedstuff, feed, grain**

Price: 753 €

Background: This ELISA assay utilise the principle of competitive binding to measure the concentration of Aflatoxin B1 in analyzed samples. The Aflatoxin B1 has been pre-coated on the surface of the reaction wells. Samples, containing an unknown amount of Aflatoxin B1, or standards are added to the appropriate plate wells together with Aflatoxin B1 specific antibodies and Horseradish Peroxidase (HRP) conjugated antibody. During incubation the competitive inhibition reaction occrus between pre-coated Aflatoxin B and Aflatoxin B1 in standards and samples and Aflatoxin B1 antibodies. Substrate solution is added to the wells and the color develops in opposite to the amount of Aflatoxin B1 in the sample or standards. Reaction is stopped and the intensity of the color is measured at 450 nm.

Aflatoxins are toxic metabolites of fungaus *Aspergillus flavus* and *Aspergillus parasiticus* and display strong carcinogenic activity (Category I cardinogen). Aflatoxins are commonly found in cereal, nuts, cotton seed, human blood and animal feed and contamination may occur in the field, during growing, harvest or processing, storage and transport. Therefore, timely detection of pullution source is a good way to prevent aflatoxin contamination.

Reaction wells: 96 wells

Assay development time: 1 hour

Sensitivity: >0.15 µg/kg

Detection range: 0.15 µg/kg (ng/ml)~4.05 µg/kg (ng/ml)

Limit of detection: Edible oil 1 µg/kg; Feedstuff, feed, grain 2 µg/kg

Sample volume: 50-100 µl

Detection wavelength: 450 nm

Intra-assay precision (within an assay)**:** CV%<10%

Intra-assay precision (between assays)**:** CV%<10%

Storage: 2-8°C

Manual in Pdf

Cross-reactivity to other compounds

Compound | Cross-reactivity (%)

Aflatoxin B1: 100 %

Sample type: Edible oil, feed, feedstuff, grain