

TOTAL AFLATOXINS ELISA (5121AFT1p)

General

Aflatoxins are extremely toxic compounds produced by the moulds *Aspergillus flavus, A. paraciticus* and *A. nomius*. Aflatoxins cause cancer, mainly of the liver but also of the gut, lungs and breasts. Among 18 different types of aflatoxins were identified. However, the main members of these are the aflatoxins B1, B2, G1 and G2. Aflatoxin M₁ and M2 are the metabolites of B1 and B2, respectively and are only excreted in the milk from animals that have consumed feed contaminated with aflatoxins.

Kit characteristics

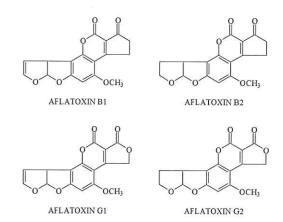
- Microtitre plate:
 12 x 8 break 4 wells
- Antibody cross-reactions:

ш	Aflatoxin B ₁	100%
н	Aflatoxin B ₂	30%
ш	Aflatoxin G ₁	65%
ш	Aflatoxin G2	10%
Œ	Aflatoxin M1	50%

- Antibody anti-Aflatoxin antibody; lyophilised
- Conjugate
 Aflatoxin-HRPO stablized
- Standard range (ready to use):
 0, 0.03, 0.06, 0.125, 0.25, 0.5 and 1.0 ng/ml
- Shelf life
 Maximun 12 months

Assay characteristics

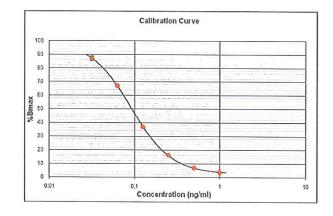
Matrix	LOD (ppb)	Recovery Rate %
Wheat	0.462	
Maize		102
Peanut		79
Animal Feed	Ŀ	110



Chemical structures aflatoxins

Assay procedure

The microtitre plate is precoated with rabbit antibodies to mouse IgG. In one incubation step, specific antibodies (mouse anti-Aflatoxin), enzyme labelled Aflatoxin (enzyme conjugate) and Aflatoxin B1 standards or sample are added to the precoated wells.). After an incubation time of one hour, the non-bound (enzyme labelled) reagents are removed in a washing step. The amount of bound enzyme conjugate is visualised by the addition of chromogen substrate. Stop the reaction and measure photometrically at 450.



LOD (Limit of Detection) and Recovery data; Validation according SANCO/1085/2000

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