



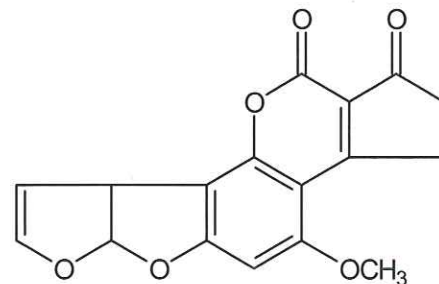
AFLATOXIN B1 ELISA (5121AFB)

General

Aflatoxin B1 (AFB1) is an extremely toxic compound 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. In lactating animals, including humans, aflatoxin B1 is hydroxylated into aflatoxin M1 which is excreted in the milk.

Kit characteristics

- **Microtiter plate:**
12 x 8 break 4 wells, resealable
- **Incubation time:**
60 min at 37°C and 30 min at RT
- **Antibody cross-reactivity:**
 - Aflatoxin B1 100%
 - Aflatoxin B2 20%
 - Aflatoxin G1 17%
 - Aflatoxin G2 4%
- **Standard range (ready-to-use):**
0, 0.0313, 0.0625, 0.125, 0.25, 0.5 and 1.0 ng/ml
- **Shelf life:**
Maximum shelf life 16 months.
Kit components are reusable after opening the kit



Chemical structure of aflatoxin B1

Sample Preparation

To an amount of ground food / feed sample an organic liquid is added. After shaking, the liquid and solid phase are separated by centrifugation or filtration. The liquid phase is diluted in buffer and an aliquot of the dilution is used in the ELISA.

Assay characteristics

	LOD (ng/g; ppb)
Cereals	0.4
Nuts	0.75
Soy / pulses	1 – 2
Feed	1 – 2

