



**EuroProxima**  
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## AFLATOXIN M<sub>1</sub> FAST ELISA (5121AFMF)

### General

Aflatoxins are produced by *Aspergillus* moulds. Aflatoxin M<sub>1</sub> is the hydroxylated metabolite of aflatoxin B<sub>1</sub> and can be found in milk obtained from livestock that have ingested contaminated feed. The main sources of aflatoxins in feeds are peanut meal, maize and cottonseed meal.

For aflatoxin M<sub>1</sub> maximum tolerance levels (MLs) are established legally in Europe.

For milk and milk products the ML is set at 0.05 ppb. Infant milk and follow-on milk have a ML of 0.025 ppb.

The **Aflatoxin M<sub>1</sub> fast ELISA** is a competitive enzyme immunoassay based on antibodies directed against aflatoxin M<sub>1</sub>.

### Kit characteristics

**Microtiter plate:**

96 Wells  
12 x 8 Breakapart

**Antibody cross-reactivity:**

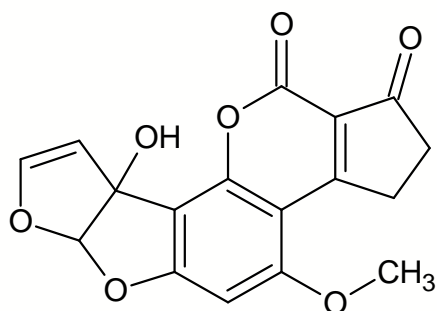
Aflatoxin M <sub>1</sub>	100%
Aflatoxin M <sub>2</sub>	70%

**Conjugate:**

Aflatoxin M<sub>1</sub>-HRP stabilized

**Standard range (ready-to-use):**

0, 6.25, 12.5, 25, 50, 100 and 200 pg/ml



Chemical structure of aflatoxin M<sub>1</sub>

### Assay characteristics

**Matrices**

Matrices	LOD (ppt)
Milk	5
Cheese	<10
Butter	<10

**LOD (ppt)**

The Limit of detection (LOD) is calculated as:  $X_n + 3SD$  and is determined under optimal conditions.

**Sample preparation**

For milk, cheese and butter fast and efficient methods are included in the kit manual.

**Procedure**

Antibody, conjugate and standard/sample are pipetted into the wells and incubated for 30 minutes at 20°C - 25°C. After a washing procedure ready-to-use substrate is added and incubated for 15 minutes at 20°C - 25°C. The reaction is stopped and the absorbance is read in a spectrophotometer at 450 nm.

EuroProxima's user-friendly software converts the measured optical density into the concentration of the metabolite in the starting material.