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Part of Thermo Fisher Scientific

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Aflatoxin M1 | ELISA quantitation kit

Qty: AS20 4394

AS20 4394 | Reactivity: **Aflatoxin M1**

Price: 753 €

Background: This ELISA assay utilizes the principle of competitive binding to measure the concentration of Aflatoxin M1 in analyzed samples. The anti-Aflatoxin M1 antibody has been pre-coated on the surface of the reaction wells. Samples, containing an unknown amount of Aflatoxin M1, or standards are added to the appropriate plate wells together with Horseradish Peroxidase (HRP) conjugated Aflatoxin M1. During incubation, the competitive inhibition reaction occurs between (HRP) conjugated Aflatoxin M1 and Aflatoxin M1 in standards and samples. Substrate solution is added to the wells and the color develops in opposite to the amount of Aflatoxin M1 in the sample or standards. Reaction is stopped and the intensity of the color is measured at 450 nm.

Reaction wells: 96 wells

Assay development time: 1 hour

Sensitivity: ≥ 5 ppt

Detection range: 5-135 ppt

Limit of detection: Cheese 15 ppt; cream 45 ppt; raw milk, milk 5 ppt; milk powder 25 ppt; yoghurt 10 ppt

Recovery rate: Cheece, cream, milk, milk powder, raw milk, yoghurt: 95 % ± 30 %

Sample volume: 50 µl

Detection wavelength: 450 nm

Intra-assay precision (within an assay)**:** CV%< 8%

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

Storage: 2-8°C (unopened), 2-8°C for one month (opened)

Manual in Pdf

Cross-reactivity to other compounds

Compound | Cross-reactivity (%)

Aflatoxin M1 (AFM1): 100 %
Aflatoxin B1 (AFB1): <1 %

Sample type: Cheese, cream, milk, milk powder, raw milk, yoghurt