



**PROGNOSIS**  
**BIOTECH**

**ILVO**

Validation of LF Symmetric M1  
& Elisa Bio-Shield M1 ES

## BIO-SHIELD M1 ES :

The only elisa kit for the quantification for Aflatoxin M1 validated from an independent scientific institute.



### Validated Precision:

Limit of detection, blank mean + 3xSD,  
7.91 ng AFM1/L

Mean CV % =7.7

The precision of the method is better compared to the precision of the chromatographic confirmatory method.

### No centrifugation required

Testing of skimmed and full cream milk is giving the same results for both blank and milk doped with 50 ng/L of Aflatoxin M1.

### Validated matrix

Reliable Bio-shield M1 ES results were obtained for both blank and spiked heat-treated milk and reconstituted milk powder solution.

### Validated robustness

10% lower or higher pipetting volume has no effect on the results obtained with the test.

There is no significant impact by the milk temperature.

Somatic Cell Count >10<sup>6</sup>/ml, high bacterial count (>1.8×10<sup>6</sup>/ml), low fat content (<2g/100 ml), high fat content (>6 g/100 ml), low protein (<3 g/100 ml), high protein (>4 g/100 ml), low pH (6.0), high pH (7.5) did not influence the Bio-Shield M1 ES results for both blank of doped milk.

No batch differences, both in blank and positive milk, were noticed for 3 different batches of Bio-Shield M1 ES.