

## Charm® SL Quantitative Test for Aflatoxin M1 in Milk



Charm SL Quantitative Test Kit for Aflatoxin M1 in Milk

SENSITIVITY LEVELS		
Concentration ppt (parts per trillion)	% Positive for Initial Result	% Positive After Retesting
0	0%	0%
300	5%	0%
350	52%	21%
400	50%	14%
450	100%	93%
500	95%	93%
550	100%	98%

## OTHER ROSA TESTS AVAILABLE FOR:

- Beta-lactams (MRL, MRLBL-3)
- ▶ Beta-lactams (SLBL, Charm 3 SL3, SL-6®)
- Beta-lactams/Tetracyclines Combo Test
- Tetracyclines
- Chloramphenicol
- Sulfonamides
- Streptomycin
- Quinolones
- Flunixin

#### AT A GLANCE

- Sensitive, reliable and accurate
- Only rapid lateral flow test to meet
- Results shown in parts per trillion (ppt)
- Rapid One Step Assay (ROSA®) Just add milk and incubate
- Can be read on same equipment as other ROSA tests§

#### **ACCURATE AND EASY TO USE**

Aflatoxin M1 is the predominant aflatoxin that appears in milk. The Charm SL Aflatoxin Test is the only quantitative lateral flow test detecting the presence of Aflatoxin M1 in parts per trillion (ppt) in raw commingled cow milk.

## **MEETS FDA ACTION LIMIT**

The current FDA action limit for Aflatoxin M1 in milk is 500 ppt (0.5 ppb). Within the SL test's quantitative scale, the threshold (or control point) that determines a positive or negative result is 400 ppt. To give safety assurances that a 500 ppt sample is not passed as negative, a 100 ppt safety margin is applied and sample is retested in duplicate. Any sample with both retests measuring greater than 400 ppt is interpreted as positive.

The precision of the quantitative reading is  $\pm 150$  ppt. This is comparable or better than HPLC. (1) The accuracy of a triplicate average is 50 ppt.

# Charm® SL Quantitative Test for Aflatoxin M1 in Raw Milk

## **OVERVIEW OF PROCEDURE**

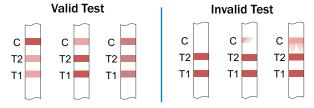


Add milk sample to test strip. Close incubator lid to start timer.





Visually inspect test strip to confirm validity.





After 15 minutes, incubator beeps and 'test complete' light will flash. Remove test strip.





Insert valid test in ROSA Reader.



## **EQUIPMENT**

## **ROSA Pearl-X Reader**

- Results in just five seconds
- Download to printer or computer
- > Stores 4500 data points
- Records sample ID, operator ID, date, time, lot #, reading and interpretation



## **ROSA Quad Incubator**

- Self-timing with indicator lights/beeper
- Countdown timer display
- Auto Start when lid closed
- Auto Reset when lid opened
- Holds 4 test strips



#### **ROSA Dual Incubator**

- Self-timing with indicator lights/beeper
- Auto Start when lid closed
- > Auto Reset when lid opened
- Holds 2 test strips



## **ORDER CODES**

DESCRIPTION:	ORDER CODE:
MRL Aflatoxin Quantitative Kits of 20, 100, 500 Tests	LF-SLAFMQ-20K, LF-SLAFMQ-100K, LF-SLAFMQ-500K
ROSA Pearl-X Reader	LF-ROSA-PEARL-X-NB
ROSA Quad Incubator	LF-INC4-15-40D
ROSA Dual Incubator	LF-INC2-15-40

## **Charm Sciences, Inc.**

