



ROSA[®] Aflatoxin Tests

**mycotoxin
testing
just got
easier...**

Charm[®] ROSA Mycotoxin Testing

RAPID AFLATOXIN DETECTION

Charm provides a broad range of ROSA (Rapid One Step Assay) lateral flow tests for aflatoxin detection. These 3-, 5-, and 10-minute tests are validated to accurately detect aflatoxin in feed and grains. ROSA tests are fast and easy, allowing testing to be performed in the receiving area as part of acceptance testing.



APPROVED AND VALIDATED

The USDA Grain Inspection, Packers & Stockyards Administration (GIPSA) has approved many ROSA aflatoxin tests for widely tested commodities. ROSA aflatoxin tests have also been validated to test at or below EU regulatory levels.

BROAD RANGE of QUALITATIVE and QUANTITATIVE TESTS

ROSA Test	Extraction Solution	Incubation Time	Approvals/ Validations	Quantitation Ranges	Commodities
AFPN	50% ethanol	3 minutes	GIPSA	positive or negative at 10 or 20 ppb	Corn
	70% methanol	3 minutes	Charm	positive or negative at 10 ppb or 20ppb	Corn
AFQ-FAST	70% methanol	3 minutes (corn only)	GIPSA	0-30 ppb, 20-150 ppb, >100 ppb	Corn
		5 minutes	GIPSA		24 other commodities
	70% methanol	5 minutes	Charm	0-30 ppb, 20-150 ppb	Soybean hulls and soybean meal
	84% acetonitrile	5 minutes	Charm	0-30 ppb, 20-150 ppb	5 commodities
AFQ-ETOH	50% ethanol	10 minutes	Charm	0-150 ppb	31 commodities
AFQ-WET	deionized or distilled water	5 minutes	GIPSA	0-25 ppb, 20-150 ppb, 50-500 ppb	16 commodities

*For a complete commodities list, refer to www.charm.com or ask your Sales or Support Representative for MRK-102.

For Feed and Grain



REDUCED ETHANOL/METHANOL USAGE

Charm WET® (Water Extraction Technology) sample extraction is the first quantitative extraction method that uses water. Distilled or bottled water replaces ethanol or methanol. Water is inexpensive and available everywhere. But the chief benefit of WET is being able to discard negative sample extracts in regular waste.

The AFQ-WET test enables testing of 16 GIPSA-approved commodities using water as the extraction solvent. WET extraction uses a non-hazardous extraction powder added to the sample followed by water to extract aflatoxin.



SIMPLE TEST PROCEDURE

1. Prepare diluted extract.



2. Add diluted extract to the test strip and incubate.

The use of an incubator ensures reagents are evenly heated to precise temperatures.



or



3. Read results on the ROSA-M Reader or EZ-M.

The Charm EZ-M® is a combined incubator and reader.



or





EASY TO USE PLATFORM

The all-in-one Charm EZ-M system incubates and reads mycotoxin test strips. The EZ-M accepts any Charm ROSA lateral flow strip for grain, including the AFQ-WET test strip.

The Charm EZ-M steps operators through testing—from sample addition to results. Simply place the ROSA strip in the Charm EZ-M, and it automatically selects the test family, calibration settings, and incubation time and temperature.



QUALITY EQUIPMENT AND STANDARDS

- › The same equipment can be used for all ROSA mycotoxin tests; choose between the ROSA-M Reader and Charm EZ-M system
- › Calibration curves are built-in
- › Each test strip lot must conform to specifications, ensuring calibration does not vary
- › Standards are supplied with each kit
- › Reference materials are available
- › Results can be printed or downloaded to a spreadsheet for further analysis and HACCP traceability

ROSA AFLATOXIN TESTS FEATURES AND BENEFITS

- › Rapid results (most tests take 3 or 5 minutes)
- › Simple procedure appropriate for acceptance testing
- › Broad range of qualitative and quantitative tests available
- › Many tests approved by USDA GIPSA
- › Quantitation ranges at or below EU regulatory levels
- › Quantitative water extraction test available
- › Dozens of commodities validated



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