

Refer to Current Charm® Operator's Manual for Complete Test Procedure

ROSA® WET®-S5 Fumonisin Quantitative Test Flow Chart (3:1)

See Approved Commodities Below

Test Ranges:
0 to 6 ppm
0 to 60 ppm

FGIS Approved Commodities:
Corn, Oats, Popcorn, Sorghum, Wheat

Charm Validated Commodity:
Millet, Rough Rice

Sample Preparation

(1) Weigh
Ground sample
50 g

(2) Add WET-S Extraction Powder
Use packet labeled with appropriate same size
1 Packet for 50 g sample

(3) Add Solvent
Deionized, Distilled or Bottled Water
150 mL

(4) Extract
Shake vigorously for at least 1.5 minutes; do not exceed 2.5 minutes^A

(5) Clarify
Centrifuge^B

100 µL Extract + 900 µL FUMQ-WETS5 Dilution Buffer → Mix → Diluted Extract

followed by

100 µL Diluted Extract + 900 µL FUMQ-WETS5 Dilution Buffer → Mix → 2nd Diluted Extract

^A Use the extract within 30 minutes of extraction
^B Use the centrifuged extract within 2 hours

Test Procedure

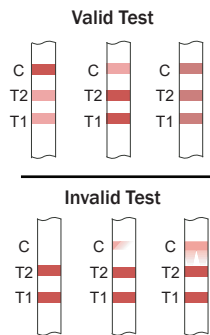
(1)
Place test strip in ROSA Incubator or Charm EZ-M system.
For Charm EZ-M system select appropriate test (FUMQ-WETS5), commodity and dilution if prompted.

(2)
Peel tape.
Pipet 300 µL 2nd Diluted Extract into sample compartment.
Reseal tape.

(3)
Close lid.
Incubate for 5 minutes.

Read Result

(1) Inspect test strip



(2) Read result with ROSA-M Reader or Charm EZ-M system

ROSA-M Reader: Select FUM channel in 3-line mode (blinking) and appropriate MATRIX.

Charm EZ-M system: Select appropriate test (FUMQ-WETS5), commodity and dilution if prompted.

Commodity	Sample (Dilution)	MATRIX	Quantitation Range	LOD
Corn	2 nd Diluted Extract (2ND DE)	00	0.5 to 5.4 ppm	0.25 ppm
	3 rd Diluted Extract (3RD DE)	01	4 to 40 ppm	-
Millet, Oats Popcorn, Rough Rice, Sorghum, Wheat	2 nd Diluted Extract (2ND DE)	03	0.5 to 5.4 ppm	0.25 ppm
	3 rd Diluted Extract (3RD DE)	04	4 to 40 ppm	-

For quantitation of 4 to 40 ppm:

100 µL 2nd Diluted Extract + 900 µL FUMQ-WETS5 Dilution Buffer → Mix → 3rd Diluted Extract

- Prepare 3rd Diluted Extract
- Repeat Test Procedure (steps 1, 2, 3) with 3rd Diluted Extract
- Read Result