

Agri-Screen®

For Aflatoxin



Intended Use

Agri-Screen for Aflatoxin is used for the screening analysis of aflatoxin in such commodities as corn, cornmeal, corn gluten meal, corn/soy blend, wheat, rice, milo, soy, whole cottonseed, cottonseed meal, raw peanuts, peanut butter and mixed feeds.

The Test

The test is a competitive direct ELISA that provides a visible screening result against a known control toxin concentration. Free toxin in the sample and control competes with enzyme-labeled toxin (conjugate) for the antibody binding sites. After a wash step, substrate reacts with the bound enzyme conjugate to produce blue color. If the sample has less blue color than the control, it contains more toxin than the control.

The Procedure

Samples must be extracted prior to testing.

1. Add 100 µL conjugate to each mixing well.
2. Add 100 µL control and sample to mixing wells. Mix.
3. Transfer 100 µL to antibody wells. Incubate for 2 minutes.
4. Dump liquid from antibody wells.
5. Wash wells thoroughly with deionized water.
6. Tap out water on paper towel.
7. Add 100 µL substrate to each well. Incubate 3 minutes.
8. Add 100 µL Red Stop to each well.
9. Visually read results.

See package insert for complete instructions

Results



Product Specifications

Control provided:	20 ppb
Testing time:	5 minutes
Antibody cross-reactivity:	Total aflatoxins (B ₁ , B ₂ , G ₁ , G ₂)
Tests per kit:	Up to 18
Approvals:	AOAC Official Method #990.32 USDA/GIPSA #2006-09

Materials Recommended But Not Provided

Available from Neogen*

1. 70% ACS Grade methanol
2. Graduated cylinder
3. Sample collection cup or container with 125 mL capacity
4. Neogen filter syringes, Whatman #1 filter paper, or equivalent
5. Sample collection tubes
6. Agri-Grind grinder, or equivalent
7. Scale capable of weighing 5-25 grams
8. 100 µL pipettor
9. Tips for 100 µL pipettor
10. Microwell holder
11. Timer
12. Wash bottle

Not Available from Neogen

1. Paper towels or equivalent absorbent material
2. Plastic ½ gallon bucket for use as waste receptacle
3. Distilled or deionized water
4. Waterproof marker

* See *Equipment and Accessories*, pages 104–108

Ordering Information

Prod.#	Product description
8010	Agri-Screen for Aflatoxin
8052	Mycotoxin Extraction Kit