

Agri-Screen®

For DON



Intended Use

Agri-Screen for DON is used for the screening analysis of DON in grain and grain products, such as wheat, wheat midds, wheat flour, wheat bran, barley, corn, cornmeal, corn screenings, malted barley and oats.

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 5 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 5 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:	1 ppm
Testing time:	10 minutes
Antibody cross-reactivity:	DON 100%. Also cross-reactive with 3-acetyl DON but does not bind to other trichothecenes.
Tests per kit:	Up to 20
Approvals:	USDA/GIPSA #2007-005

Materials Recommended But Not Provided

Available from Neogen*

1. Graduated cylinder
2. Sample collection cup with lids or container with 125 mL capacity
3. Neogen filter syringe, Whatman #1 filter paper, or equivalent
4. Sample collection tubes
5. Agri-Grind grinder, or equivalent
6. Scale capable of weighing 5-25 grams
7. 100 µL pipettor
8. Tips for 100 µL pipettor
9. Microwell holder
10. Timer
11. 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
8310	Agri-Screen for DON
8052	Mycotoxin Extraction Kit