Veratox®

For DON High Sensitivity (HS)

Intended Use

Veratox for DON High Sensitivity (HS) is used for the quantitative analysis of lower levels of deoxynivalenol (DON) in wheat, barley, and processed cereal.

The Test

The test is a competitive direct ELISA that provides exact concentrations in parts per billion (ppb). Free toxin in the sample and controls 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. A microwell reader is used to yield optical densities. Control optical densities form a standard curve, and sample optical densities are plotted against the curve to calculate the exact concentration of toxin.

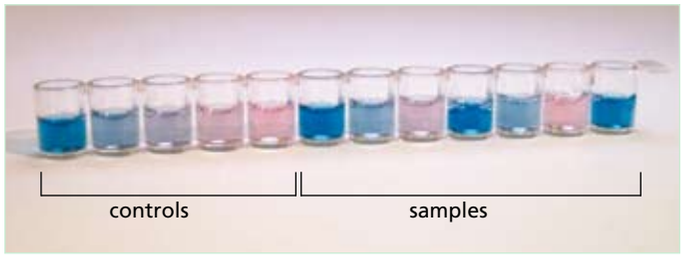
The Procedure

Samples must be extracted prior to testing.

1. Add 100 µL conjugate to mixing wells.
2. Add 100 µL controls and samples to mixing wells.
3. Mix. Transfer 100 µL to the antibody wells. Incubate for 10 minutes.
4. Dump liquid from antibody wells.
5. Wash wells thoroughly with deionized water.
6. Tap out water on paper towel.
7. Transfer 100 µL substrate from reagent boat to antibody wells using 12-channel pipettor. Incubate for 10 minutes.
8. Transfer 100 µL Red Stop from reagent boat to antibody wells.
9. Read results using a microwell reader with a 650 nm filter.

See package insert for complete instructions

Results



Product Specifications

Lower limit of detection:	25 ppb
Range of quantitation:	25-250 ppb
Controls provided:	0, 25, 50, 100 and 250 ppb
Testing time:	20 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 38

Materials Recommended But Not Provided

Available from Neogen*

1. Graduated cylinder
2. 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 5-50 grams
7. Microwell reader with a 650 nm filter
8. 12-channel pipettor
9. 100 µL pipettor
10. Tips for 12-channel and 100 µL pipettors
11. Microwell holder
12. Timer
13. Wash bottle
14. 2 reagent boats for use with 12-channel pipettor

Not Available from Neogen

1. Deionized or distilled water
2. Paper towels, or equivalent absorbent material
3. Plastic bucket for use as waste receptacle
4. Waterproof marker

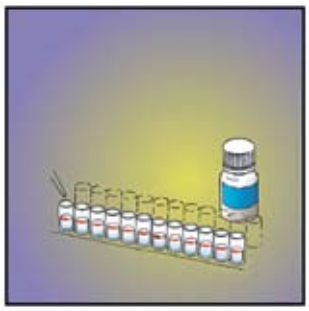
* See *Equipment and Accessories*, pages 104–108

Ordering Information

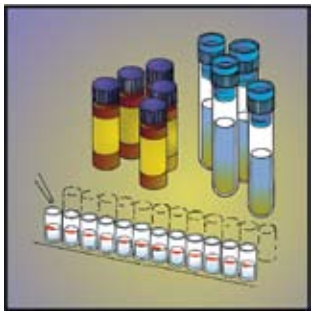
Prod.#	Product description
8332	Veratox for DON HS
8052	Mycotoxin Extraction Kit

Veratox Procedure for DON HS

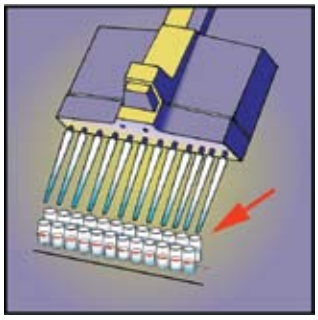
Note: Please read kit instructions completely before performing test.
Questions? Call 800/234-5333 or 517/372-9200.



1. Add 100 µL conjugate to each red marked mixing well.



2. Add 100 µL controls and samples to their respective wells.



3. Mix. Transfer 100 µL to antibody wells. Incubate for 10 minutes.

4. Dump liquid from antibody wells.

5. Wash wells thoroughly 5 times with deionized water.

6. Tap out water on absorbent paper towel.

7. Transfer 100 µL substrate from reagent boat to antibody wells using 12-channel pipettor. Incubate for 10 minutes.

8. Transfer 100 µL Red Stop from reagent boat to antibody wells.

9. Read results using a microwell reader with a 650 nm filter.

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