

Natural Toxins

Veratox®

For T-2 / HT-2 Toxins



Intended Use

Veratox for T-2/HT-2 toxins is used for the quantitative analysis of T-2 and HT-2 toxins in corn, barley, oats, rye, soy and wheat.

The Test

The test is a competitive direct CD-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 are used to form the standard curve, and sample optical densities are plotted against the curve to calculate the exact concentration of toxin.

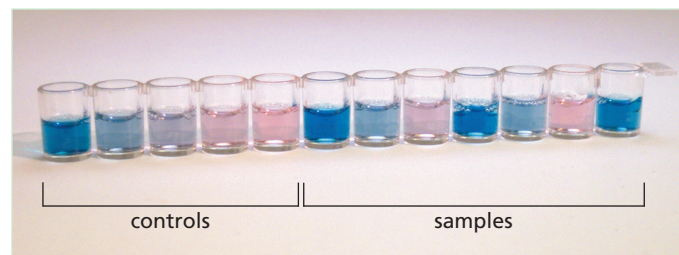
The Procedure

Samples must be extracted prior to testing.

1. Add 100 µL conjugate to each mixing well.
2. Add 100 µL controls and samples to mixing wells.
3. Mix. 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. Transfer 100 µL substrate from reagent boat to antibody wells using 12-channel pipettor. Incubate for 5 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: 10 ppb
- Range of quantitation: 25 ppb - 250 ppb
- Controls provided: 0, 25, 50, 100 and 250 ppb
- Testing time: 10 minutes
- Antibody cross-reactivity: T-2 Toxin 100%, HT-2 Toxin 100%
- Tests per kit: Up to 38

Materials Recommended But Not Provided

Available from Neogen*

1. Graduated cylinder
2. Sample collection cup or container with 125 mL capacity
3. Neogen filter syringe, Whatman #1 filter paper, or equivalent
4. Sample collection tubes
5. 70% methanol (ACS grade)
6. Agri-Grind grinder or equivalent
7. Scale capable of weighing 5-25 grams
8. Microwell reader with a 650 nm filter
9. 100 µL pipettor
10. 12-channel pipettor
11. Tips for 100 µL and 12-channel pipettors
12. Microwell holder
13. Timer
14. Wash bottle
15. 2 reagent boats for 12-channel pipettor

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

Ordering Information

Prod.#	Product description
8230	Veratox for T-2/HT-2 Toxins
8052	Mycotoxin Extraction Kit