

Natural Toxins

Veratox®

For Histamine



Intended Use

Veratox for Histamine is used for the quantitative analysis of histamine in scombroid species of fish, such as tuna, bluefish and mahi-mahi.

The Test

The test is a competitive direct ELISA that provides exact concentrations in parts per million (ppm). Histamine is extracted from a sample using a quick water extraction process. Free histamine in the sample and controls competes with enzyme-labeled histamine (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 a standard curve, and sample optical densities are plotted against the curve to calculate the exact concentration of histamine.

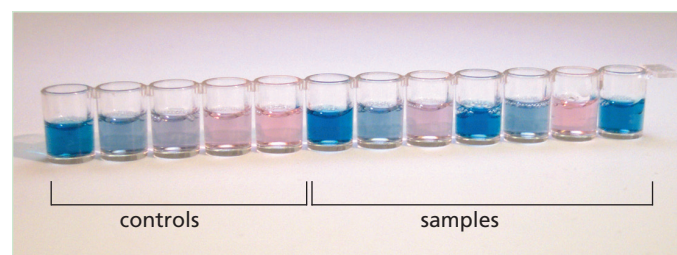
The Procedure

Samples must be extracted prior to testing.

1. Add 100 µL conjugate to each mixing well.
2. Add 100 µL of controls and diluted samples to mixing wells.
3. Mix. Transfer 100 µL to antibody wells. Incubate for 10 minutes.
4. Dump liquid from antibody wells.
5. Wash wells thoroughly with diluted wash buffer.
6. Carefully tap out remaining liquid 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: 2 ppm
- Range of quantitation: 2.5 ppm - 50 ppm
- Controls provided: 0, 2.5, 5, 10, 20 and 50 ppm
- Testing time: 20 minutes
- Antibody cross-reactivity: Specific for histamine
- Tests per kit: Up to 38
- Approvals: AOAC-RI #070703

Materials Recommended But Not Provided

Available from Neogen*

1. Disposable bottles with 250 mL capacity
2. Neogen filter syringe, Whatman #1 filter paper, or equivalent
3. Sample collection tubes
4. Graduated cylinder
5. Blender
6. Test tube rack
7. Test tubes
8. Scale capable of weighing 10-50 grams
9. Microwell strip reader with a 650 nm filter
10. 100 µL pipettor
11. 12-channel pipettor
12. Tips for 100 µL and 12-channel pipettors
13. Microwell holder
14. Timer
15. Wash bottle
16. 1 L bottle with lid
17. 2 reagent boats for use with 12-channel pipettor

Not available from Neogen

1. Paper towels or equivalent absorbent material
2. Deionized or distilled water
3. Waterproof marker

Ordering Information

Prod.#	Product description
9505	Veratox for Histamine
9510	Veratox for Histamine Extraction Kit