Veratox® for Histamine

DOWNLOAD AND READ KIT INSTRUCTIONS COMPLETELY BEFORE PERFORMING TEST.

Materials Provided:
48 antibody-coated wells
48 red-marked mixing wells
56 yellow-labeled bottles 0, 2.5, 5, 10, 20, and 50 ppm histamine controls
01 blue-labeled bottle of histamine-HRP conjugate solution
01 foil pouch of sample extract diluent buffer concentrate of 10 mM PBS dry powder
01 bottle of 40 mL wash buffer concentrate of 10 mM PBS-Tween
01 green-labeled bottle of K-Blue® Substrate solution
01 red-labeled bottle of Red Stop solution

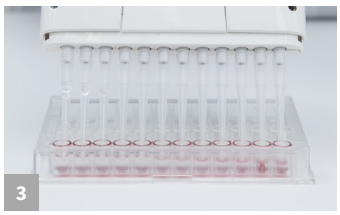
Product Number: 9505
Threshold: 2.5–50 ppm
Testing time: 20 minutes

Call 800.234.5333 to order or visit neogen.com

Test Procedure

Add 100 µL of conjugate to each red-marked mixing well.

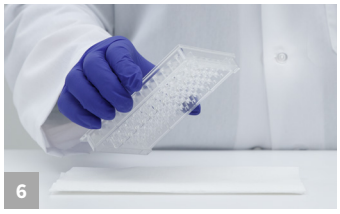
Add 100 µL of controls and diluted samples to the red-marked mixing wells. Make sure the controls are in the correct order per the kit instructions.



Mix well, then transfer (using the 12-channel pipettor) 100 µL to the clear antibody wells. Incubate at room temperature for 10 minutes, sliding the microwell holder gently for the first 10–20 seconds.

Shake out the contents of the antibody wells.

Wash wells thoroughly with deionized water. Repeat wash step 4 times.

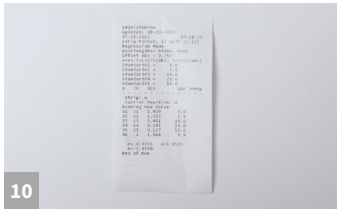


Tap out the water on an absorbent paper towel.

Transfer (using the 12-channel pipettor) 100 µL of substrate from the reagent boat to the antibody wells. Incubate at room temperature for 10 minutes, sliding the microwell holder gently for the first 10–20 seconds.

Transfer (using the 12-channel pipettor) 100 µL of Red Stop Solution from the reagent boat into the antibody wells and mix by sliding back and forth on a flat surface.

Wipe the bottom of the microwells with a dry cloth and read results using a microwell reader with a 650 nm filter.



The result should read with a coefficient above 0.980 to be considered valid. Sample results above 40 ppm must be diluted and retested. Sample results below the limit of quantification must be reported as < 2.5 ppm.

Veratox® for Histamine

Product Number: 9505

Ordering Information

9505 Veratox for Histamine

9303 Neogen® Stat Fax 4700 reader

Materials Recommended, Not Provided

Neogen #	Item Description
9398	Disposable bottles with 125 mL capacity
9420H	Filter syringes for histamine
9421, 9421B	Sample collection tubes
9440	Test tube rack
9474	Tubes, 15 mL, graduated
9427	Scale capable of weighing 10–50 g
9273	Pipettor, 12-channel
9272	Pipettor, 100 µL
9410, 9407, 9417	Pipette tips for 12-channel and 100 µL pipettors
9402	Microwell holder
9426	Timer
9400	Wash bottle
9472	1 L bottle with lid
9435	2 reagent boats for 12-channel pipettor
9368	Graduated cylinder
9493, 9477	High speed blender
-	Paper towels or equivalent absorbent material
-	Waterproof marker
-	Distilled or deionized water

High levels of histamine may develop in a variety of fish species as they decompose. These species include tuna, mahi-mahi, marlin, bluefish, sardines, anchovy, bonito, herring, and mackerel. Ingestion of histamine may cause scombroid poisoning in humans, which may lead to a variety of symptoms, including rash, nausea, vomiting, diarrhea, hypotension, palpitations, and muscle weakness. Paralysis and death have also been reported in cases of scombroid poisoning. Because of its potential for human illness, the U.S. Food and Drug Administration (FDA) has ruled that extensive refrigeration records and/or histamine testing must be included in a hazard analysis and critical control point (HACCP) program for relevant fish species. The FDA has set an action level of 50 parts per million (ppm) for histamine in domestic and imported fish.

The best protection against histamine is monitoring for its presence in fish and dry animal protein by testing along the supply chain.

Test with Confidence

Veratox® for Histamine is a quantitative ELISA microwell assay, perfect for those with laboratory setups from food manufacturers to commercial laboratories. The assay requires a 650 mM filter microwell assay reader.

- AOAC approved method
- Cost-effective microwell format for batch testing
- Equivalent recovery to traditional fluorometric methods

NEOGEN®