

# Reveal<sup>®</sup> Q+ for Histamine

DOWNLOAD AND READ KIT INSTRUCTIONS COMPLETELY BEFORE PERFORMING TEST.



## Materials Provided:

25 Reveal<sup>®</sup> Q+ for Histamine test strips  
25 red sample dilution cups  
01 bottle of sample diluent

**Product Number: 9549**

**Threshold: 1.5–40 ppm**

**Testing time: 5 minutes**

**Call 800.234.5333 to order or visit Neogen.com**

## Sample Preparation

### Canned Tuna: AOAC 937.07b

Place entire contents of can/pouch (meat and liquid) into a blender. Blend until homogenous. Store samples at 2–8°C (35–46°F) until analyzed.

### Fresh or Thawed Frozen Raw Fish: AOAC 937.07a

Clean and eviscerate three fish. Cut three cross-sectional pieces 2.5 cm (1 inch) thick, from back of the pectoral fin, halfway to the vent and one posterior to the vent. Debone slices and blend or grind combined samples until homogenous. Store samples at 2–8°C (35–46°F) until analyzed.

## Sample Extraction



1 Add 10 g of the blended sample to an extraction bottle.



2 Add 190 mL of distilled water to the extraction bottle.



3 Cap and vigorously shake the bottle for 15–20 seconds.



4 Allow to settle for 5 minutes, then shake the bottle for 15–20 seconds. Allow to settle for 5 minutes, then shake the bottle again, for 15–20 seconds. Allow to settle for 30 seconds. The sample is now ready for testing.

## Test Procedure



1 Prepare by entering the QR code into the Raptor<sup>®</sup> Solo reader.



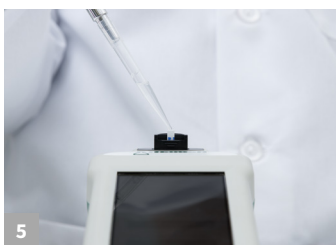
2 Add 100 µL of the sample extraction to a red dilution cup.



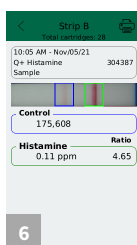
3 Add 1000 µL of the sample diluent to the red dilution cup and mix by pipetting up and down 5 times.



4 Insert a test strip into the Raptor Solo cartridge. Insert the cartridge into the Raptor Solo reader. Enter a sample ID if desired.



5 Add 400 µL of the sample from the red dilution cup to the back of the Raptor Solo cartridge. Reader will start automatically.



6 The results will be displayed on the screen after the 5-minute testing period is complete. Note: Samples greater than 40 ppm must be diluted and retested.

## Dilution Procedure

1. Add 100 µL of the sample filtrate (from sample extraction step 4) to a sample collection tube.
2. Add 1000 µL of the distilled or deionized water to the tube. Cap and shake well.
3. Follow the test procedure to process your diluted sample. Note: The result displayed will need to be multiplied by 11 (unless you have activated the dilution feature on the Raptor).

### To Activate the Dilution Factor:

1. After entering the sample ID, press dilution.
2. Select dilution factor — for this example 1:11; press next.



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## Ordering Information

- 9549 Reveal Q+ for Histamine
- 9696 Raptor® Solo system
- 9681 Raptor cartridges



## Materials Recommended, Not Provided

Neogen #	Item Description
9399	Sample extraction bottles 250 mL
9421	Sample collection tubes
9368	Graduated cylinder 250 mL
9493, 9477	Blender
9427	Scale capable of weighing 5–50 g ± 0.1 g
9272, 9860	Pipettor 100 µL
9407, 9410, 9417	Pipette tips 1–200 µL
9337	Pipettor 1,000 µL
9693	Pipettor 400 µL
9464, 9487	Pipette tips 100–1,000 µL
9426, 9452	Timer
9475	Reveal sample cup rack
–	Paper towels
–	Distilled or deionized water
–	Waterproof marker
9696	Raptor Solo system
9681	Raptor cartridges

High levels of histamine may develop in a variety of fish species as they decompose. Ingestion of histamine may cause scombroid poisoning in humans, which may lead to a variety of symptoms, including rash, nausea, vomiting, and muscle weakness. Because of its potential for human illness, the U.S. Food and Drug Administration (FDA) has set an action level of 50 parts per million (ppm) for histamine in domestic and imported fish.

## Test with Confidence

Neogen's Reveal® Q+ for Histamine is an easy-to-use lateral flow assay for the quantitative analysis of histamine in scombroid species of fish in only five minutes.

