

MATERIALS PROVIDED

1. 20 disposable extraction bottles (see precaution #1)
2. 20 disposable filter syringes, each containing 1g chopped glass wool
3. 20 sample collection tubes (12 x 75 mm)
4. Directions for use

MATERIALS REQUIRED BUT NOT PROVIDED

1. Blender
2. Graduated cylinder capable of measuring 190 mL
3. Timer
4. Test tube rack
5. Distilled or deionized water

STORAGE

This kit may be stored at room temperature, 18-30°C (64-86°F).

PRECAUTIONS

1. If using extraction bottles other than those included in the Neogen Histamine Extraction Kit, make sure the bottles are plastic, NOT GLASS. Histamine adheres to glass, thus the use of glassware can affect test results.
2. Good laboratory practices should always be followed.
3. Always use a new extraction bottle, sample collection tube and filtering syringe for each sample to avoid cross-contamination.
4. Destroy and dispose of filtering syringe in a manner to prohibit reuse.
5. Do not take filtering material out of syringe. Material can cause skin and eye irritation.

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SAMPLE PREPARATION FOR EXTRACTION

1. **Canned tuna:** AOAC 937.07b - Place entire contents of can (meat and liquid) into a blender. Blend until homogenous.
2. **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 vent and one posterior to the vent. Debone slices and blend or grind combined samples until homogenous.

SAMPLE EXTRACTION PROCEDURE

1. Add 190 mL of distilled or deionized water to an extraction bottle.
2. Add 10 grams of the homogenous mixture to the extraction bottle.
3. Tightly cap and vigorously shake the bottle for 15 to 20 seconds to suspend the fish tissue in the water.
4. Wait approximately **5 minutes**, then shake the bottle for 15 to 20 seconds to resuspend the fish tissue.
5. Wait an additional **5 minutes**, and again shake the bottle for 15 to 20 seconds. After shaking, allow the tissue to settle for about 30 seconds.
6. Ensure the glass wool is tightly packed in the syringe by depressing the plunger. Remove the plunger from the syringe and hold syringe tip over a sample collection tube. Fill the syringe by pouring the liquid from the extraction bottle into the syringe until it is at least 1/2 full.
7. Replace the plunger in the syringe and apply gentle pressure until the sample collection tube is at least 1/3 full. Discard the syringe. Test tubes and extraction bottles should be labeled for proper sample identification.
8. The sample is now ready for testing with the Alert for Histamine test kit. Proceed to the test kit's **SAMPLE EXTRACT DILUTION** step.

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Product #9520E

Read instructions carefully before using

ALERT®

Histamine Extraction Kit

Designed for use with
Neogen's Alert for Histamine test kit

INTENDED USE

This Alert for Histamine Extraction Kit contains materials necessary for the extraction of histamine from scombroid species of fish, such as tuna, bluefish and mahi-mahi.

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