

**Veratox®****For Chloramphenicol****Intended Use**

Veratox for Chloramphenicol is used for the quantitative analysis of chloramphenicol residues in shrimp.

**The Test**

The test is a competitive direct ELISA that provides exact concentrations in parts per trillion (ppt). Free chloramphenicol in the sample and controls competes with enzyme-labeled chloramphenicol (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 form a standard curve, and sample optical densities are plotted against the curve to calculate the exact concentration of chloramphenicol.

**The Procedure**

Samples must be extracted prior to testing.

1. Add 100  $\mu$ L of controls and samples, in duplicate, to the antibody-coated microwells. Wait 10 minutes.
2. Add 100  $\mu$ L of diluted enzyme conjugate to the wells.
3. Mix. Incubate at room temperature for 10 minutes.
4. Dump liquid from the wells.
5. Wash wells thoroughly with wash buffer.
6. Tap out water on paper towel.
7. Transfer 100  $\mu$ L of substrate from a reagent boat to the wells using 12-channel pipettor. Mix. Incubate for 10 minutes.
8. Transfer 100  $\mu$ L of stopping solution from a reagent boat to the wells.
9. Read results using a microwell reader with a 450 nm filter.

See package insert for complete instructions

**Results****Product Specifications**

Lower limit of detection:	0.02 ng/mL or 10 ppt
Range of quantitation:	10–1000 ppt
Controls provided:	0.0, 0.02, 0.05, 0.1, 0.5, 2.0 ng/mL
Testing time:	30 minutes
Tests per kit:	Up to 90

**Materials Recommended But Not Provided**

Available from Neogen\*

1. Adjustable pipettor
2. Multichannel pipettor
3. Tips for adjustable and multichannel pipettors
4. Reagent boats for use with multichannel pipettor
5. Clean test tubes used to dilute conjugate
6. Graduated cylinder to dilute and mix wash buffer
7. Wash bottle
8. Microplate reader with 450 nm filter

Not Available from Neogen

1. Iso-octane
2. Chloroform
3. Ethyl acetate (100%)
4. Centrifuge capable of ~ 2000 x g with appropriate tubes
5. Heat block
6. Compressed nitrogen or air, and necessary tubing
7. Vortex
8. Blender or food processor

**Ordering Information**

Prod.#	Product description
9551	Veratox for Chloramphenicol