

# Veratox<sup>®</sup> HS MAX for Total Aflatoxin

DOWNLOAD AND READ KIT INSTRUCTIONS COMPLETELY BEFORE PERFORMING TEST.



## Materials Provided:

48 antibody-coated wells  
48 red-marked mixing wells  
05 yellow-labeled bottles of 0, 1, 3, 5, and 10 ppb aflatoxin controls  
01 blue-labeled bottle of aflatoxin HRP conjugate solution  
01 green-labeled bottle of K-Blue<sup>®</sup> Substrate solution  
01 red-labeled bottle of Red Stop Solution  
25 MAX 2 extraction packets  
01 pink-labeled bottle of dilution diluent

**Product Number: 8032**

**Threshold: 5–50 ppb**

**Testing time: 10 minutes**

**Sample extraction:** Please follow the kit insert instructions for sample preparation and extraction before running the test procedure.

**Kits must be warmed to room temperature 18–30°C (64–86°F) before use.**

**Call 800.234.5333 to order or visit [NEOGEN.com](http://NEOGEN.com)**

## Test Procedure



**1**  
Weigh out 10 g sample and add 1 MAX 2 packet. Add 50 mL distilled or deionized water.



**2**  
Shake for 3 minutes. Allow to settle.



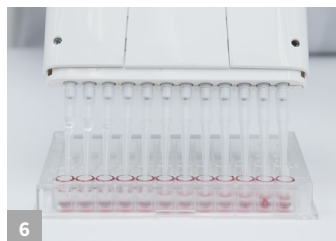
**3**  
Filter using syringe.



**4**  
Remove 1 red mixing well for each sample plus 5 for controls. Remove equal number of clear antibody wells and place in well holder. Add 100 µL of conjugate to each red-marked mixing well.



**5**  
Add 100 µL of controls and extracted samples to the red-marked mixing well. Make sure the controls are in the correct order per the kit instructions.



**6**  
Mix well, then transfer (using the 12-channel pipette) 100 µL to the clear antibody wells. Incubate at room temperature for 15 minutes, sliding the microwell holder back and forth gently for the first 30 seconds.



**7**  
Shake out the contents of the antibody wells.



**8**  
Wash wells thoroughly with deionized water. Repeat wash step 5 times. Tap out the water on an absorbent paper towel.



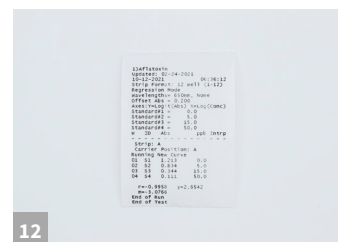
**9**  
Transfer (using the 12-channel pipettor) 100 µL of substrate from the reagent boat to the antibody wells. Incubate at room temperature for 15 minutes, sliding microwell holder back and forth gently for the first 30 seconds.



**10**  
Transfer (using the 12-channel pipettor) 100 µL of Red Stop Solution from reagent boat into the antibody wells and mix by sliding back and forth on a flat surface.



**11**  
Wipe the bottom of the microwells with a dry cloth and read using a microwell reader with a 650 nm filter.



**12**  
The result should read with a coefficient above 0.980 to be considered valid. Sample results above 10 ppb must be diluted and retested. Sample results below the limit of quantification must be reported as < 1 ppb.



# Veratox<sup>®</sup> HS MAX for Total Aflatoxin

Aqueous Extraction  
Product Number: 8032

## Ordering Information

8032 Veratox HS MAX for  
Total Aflatoxin



8036 MAX 2 extraction  
packets

9303 NEOGEN<sup>®</sup> Statfax  
4700 reader

## Materials Recommended, Not Provided

| NEOGEN #         | Item Description                                                         |
|------------------|--------------------------------------------------------------------------|
| 9368             | 250 mL graduated cylinder                                                |
| 9428             | Container with 125 mL capacity                                           |
| 9420, 9430       | NEOGEN filter syringes, Whatman #1 filter paper or equivalent            |
| 9421             | Sample collection tubes                                                  |
| 9401             | Agri-grind grinder or equivalent                                         |
| 9427             | Scale capable of weighing 5–50 g                                         |
| 9273             | Pipettor 12-channel                                                      |
| 9272, 9290       | Pipettor 100 µL                                                          |
| 9410, 9407, 9417 | Pipette tips for 100 µL and 12-channel pipettors                         |
| 9402             | Microwell holder                                                         |
| 9426             | Timer                                                                    |
| 9400             | Wash bottle                                                              |
| 9450             | 2 reagent boats for 12-channel pipettor                                  |
| –                | Distilled or deionized water                                             |
| 9303             | NEOGEN Statfax reader or equivalent microplate reader with 650 nm filter |
| 9330             | Rockit shaker or equivalent                                              |

Aflatoxin is a toxic and carcinogenic substance produced by certain strains of the molds *Aspergillus flavus* and *A. parasiticus*. Aflatoxin contamination can pose a serious health threat to humans and livestock — it's been shown to cause liver damage, cancer, decreased milk and egg production, immune suppression, and interference with reproductive efficiency.

The best protection against aflatoxin and other mycotoxins is monitoring for their presence in feed and food by testing along the pathway from initial harvest of grains to finished product.

## Test with Confidence

Veratox<sup>®</sup> HS MAX for Total Aflatoxin is a quantitative ELISA microwell assay — perfect for those with laboratory setups from food manufacturers to commercial laboratories. The assay requires a 650 nm filter microwell assay reader.

- Quantitative results for lower levels of aflatoxin (1–20 ppb with dilutions)
- Cost-effective microwell format for batch testing
- Simple, aqueous extraction

