

# QuickTox™ Kit for QuickScan - DON (Vomitoxin)

## QuickGuide

Wheat bran  
Wheat middlings  
Wheat flour

### Sample Preparation



Collect and grind a representative sample per Product Insert instructions (flour does not need to be ground)



Ground too coarse = improper extraction

### Test Procedure

(more detailed instructions in the Product Insert)



1. Add a 20 to 50 gram sub-sample to container



2. Add 5 mL/gram room temperature tap water (example: 100 mL for 20 gram sample)



3. Shake on mechanical shaker (or vigorously by hand) for 60 seconds



4. Take 1 mL of top layer of extract and centrifuge for 3 minutes at 2000 x *g* (NOT RPM) - follow centrifuge manufacturer's instructions



5. Add 100  $\mu$ L Buffer to vial, then using a new pipette tip, add 100  $\mu$ L sample; stir well with pipette tip



6. Add the QuickTox Strip; wait 10 minutes for results

### QuickScan Test Results

(more detailed instructions in the QuickScan User Manual)

7. Remove strip from vial immediately after 10 minutes. Cut off and discard bottom pad with arrow tape. (No drying step!)

8. Place in the QuickScan carrier and slide carrier in. Click "Read Test" on Main Menu. Results are reported between 0.2 ppm and 5 ppm (to 2 ppm in flour). (For quantification above 5 ppm, a simple dilution step will yield results up to 10 ppm -- middlings only)

9. Results Screen will appear when scanning is complete. Enter sample identification data and use buttons to save or print report.

# Detailed Instructions for Retesting Samples that have read >5 ppm (Corn and Wheat testing only)

If after running and reading the test, the initial result is greater than 5 ppm (“> 5 ppm” on QuickScan), and further knowledge about the level of contamination is desired, samples can be retested by further dilution of the sample extract.

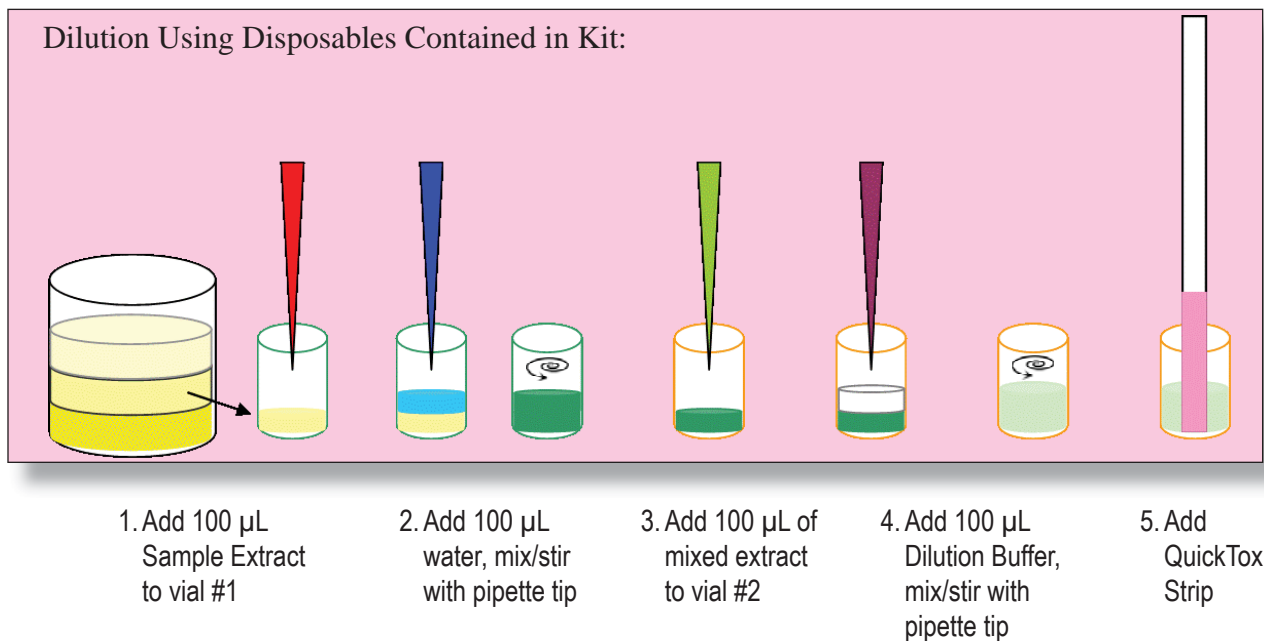
Have another vessel ready to dilute the sample – this could be a new vial out of the kit, a separate test tube, or a small graduated cup.

Take some of the sample layer you have already extracted, and mix with an equal amount of water. For example, if you use 5 mL of sample layer, mix with 5 mL of water in the vessel. Then follow Steps 3-5 below.



You can also do this dilution with disposables contained in the kit, using 2 new vials and 4 new pipette tips.

1. With a new tip on the calibrated pipette, place 100  $\mu$ L of Sample Layer into vial #1; dispose of tip.
2. Using another new tip, pipette 100  $\mu$ L of water into vial #1 and mix well; dispose of tip.
3. With a new tip, pipette 100  $\mu$ L of Dilution Buffer into vial #2; dispose of tip.
4. Using a new tip, pipette 100  $\mu$ L of the sample/water mixture out of vial #1 and into vial #2. Mix well with the pipette tip.
5. Add a new QuickTox Strip to vial #2 and wait 10 minutes for results.



Read on QuickScan Reader, and remember to use the pulldown menu to choose the dilution - this allows QuickScan to calculate and record the actual result.

If QuickScan again reports the result as >5, this indicates the level is greater than 10 ppm.