



RAPID, READY, RELIABLE **MYCOTOXIN TESTING**



TotalTox™

The logo for TotalTox, featuring a stylized blue molecular structure icon above the brand name. The name "TotalTox" is in a large, blue, sans-serif font, with a trademark symbol (TM) at the end.





*EnviroLogix is the pioneering provider of advanced grain testing and data management for the agricultural industry. We are the single-supplier solution for comprehensive mycotoxin and GMO testing needs.*

Learn more at [EnviroLogix.com/TTTox](http://EnviroLogix.com/TTTox)







TotalTox™ is the complete answer to all your mycotoxin testing needs. This comprehensive suite of tools for grain analysis and data archiving & retrieval includes the industry's first and only mycotoxin comb. The TotalTox platform is engineered to optimize labor productivity while offering an expanded detection range. It's the total solution for precisely evaluating your grain's toxicity levels while keeping it moving at maximum speed. TotalTox benefits include:

**✕ RAPID RESULTS**

Industry-leading Prep-to-Read Speed—for faster grain intake

**✕ SIMPLE, SHARED PROTOCOL**

User-friendly, reduced-step, multi-toxin test—for easy testing of more toxins

**✕ INDUSTRY-FIRST (AND ONLY) MYCOTOXIN COMB**

For simultaneous, multi-toxin extraction & reading

**✕ EXPANDED-RANGE DETECTION**

Pinpoint accuracy within a wider toxicity scan—reduce the need to retest

**✕ SINGLE-SUPPLIER SOLUTION**

For comprehensive GMO & mycotoxin testing & tracing—from the agricultural industry leader

**✕ MAXIMIZED DATA MANAGEMENT**

Totally-traceable info organization & access—easy audit compliance & supplier management

**✕ UNPARALLELED PRODUCT SUPPORT**

Responsive & reliable answers to every need—to maintain efficiency & compliance

**✕ MULTI-MATRIX PORTFOLIO**

Common-kit use for a broad range of grains—for single-test flexibility

# MYCOTOXINS: A RISING THREAT TO HEALTHY GROWTH

Mycotoxins are toxic chemicals produced by fungi and molds that are especially threatening to grain and food crops. Their adverse effects on the health of animals and humans can range from acute poisoning to such long-term diseases as immune deficiency and even cancer. Mycotoxins' ability to attach to mold spores, dust, or other flying particles allows them to appear anywhere within the agricultural products supply chain. Grain supplies are particularly susceptible, with contamination possible at any point between crop growth and grain storage.

Global changes to both climate and supply-chains are introducing new mycotoxins to both field and factory.

**These widely spread contaminants present an increased risk of toxicity not only on their own but through their biochemical interactions, which can greatly increase each mycotoxin's toxicity.**

These escalating factors have increased the risks associated with single-mycotoxin testing. That protocol can miss the presence of untested toxins and also yield "safe" single readings well below the true toxicity that may be elevated by the interplay with other mycotoxins. TotalTox was developed to specifically address this rising threat to the healthy growth of humans, animals, and the grain-based businesses that support them.

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The most problematic mycotoxins are aflatoxin, DON (vomitoxin), fumonisin & zearalenone. TotalTox provides single & multiple testing solutions for all.









# GET A HANDLE ON ADVANCED, SIMULTANEOUS TESTING TECH

TotalTox technology is a marriage of speed, accuracy, and access designed to put the power of mycotoxin testing at your fingertips. Tests come as either individual strips or joined in the TotalTox Comb—the **industry's first solution for the simultaneous extraction and reading of multiple mycotoxins**. The comb performs each of these two procedures in their own single, shared protocol. Individual strip barcoding ensures that each test result is identified and stored for easy, instant access.

## LOT NUMBER

EnviroLogix follows best manufacturing practices; every step is documented and traceable.

## INTEGRATED BARCODES

QuickScan II automatically associates the strip barcode with the lot-specific barcode card to deliver exquisite accuracy and precision for every matrix.

## DETECTION TECHNOLOGY

Proprietary reagents that deliver performance improvements such as: fast time to results, wide detection ranges, and low limits of detection.

## COLOR CODING

Visually ensure the correct toxin is being tested.



## UNIQUE COMB ASSEMBLY

Robust comb design makes it easier to handle multiple strips in each stage of the process from prep to results.

## TEST-SPECIFIC BARCODES

Enable the QuickScan II to read and report each test result individually.

## MULTIPLE MYCOTOXINS PER COMB

Common sample preparation protocols allow you to test for multiple toxins with the same effort as if you were testing for just one.





|                       |                           | TotalTox<br>Aflatoxin                                                             | TotalTox<br>DON (Vomitoxin)                                                       | TotalTox<br>Fumonisin                                                               | TotalTox<br>Zearalenone                                                             | TotalTox<br>Multi ADF                                                               | TotalTox<br>Multi ADFZ                                                              |
|-----------------------|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                       |                           |  |  |   |  |  |  |
| BASIC INFORMATION     | TEST TYPE                 | Strip                                                                             | Strip                                                                             | Strip                                                                               | Strip                                                                               | Comb                                                                                | Comb                                                                                |
|                       | PART NUMBER               | AQ-309-BG                                                                         | AQ-304-BG                                                                         | AQ-411-BG                                                                           | AQ-412-BG                                                                           | AQ-440-ADF-[24 or 48]                                                               | AQ-440-ADFZ-[24 or 48]                                                              |
|                       | DEVICES PER KIT           | 50                                                                                | 50                                                                                | 50                                                                                  | 50                                                                                  | 24 or 48                                                                            | 24 or 48                                                                            |
|                       | TESTS PER DEVICE          | 1                                                                                 | 1                                                                                 | 1                                                                                   | 1                                                                                   | 3                                                                                   | 4                                                                                   |
| MYCOTOXINS DETECTED   | AFLATOXIN                 |  |  |  |  |  |  |
|                       | DON (VOMITOXIN)           |  |  |  |  |  |  |
|                       | FUMONISIN                 |  |  |  |  |  |  |
|                       | ZEARALENONE               |  |  |  |  |  |  |
| TESTING INFORMATION   | PRIMARY MATRIX            | Corn                                                                              | Corn                                                                              | Corn                                                                                | Corn                                                                                | Corn                                                                                | Corn                                                                                |
|                       | SECONDARY MATRICES        | 8 available<br>10 coming                                                          | 16 available<br>2 coming                                                          | 4 available<br>3 coming                                                             | 1 available<br>4 coming                                                             | --<br>3 coming                                                                      | --<br>3 coming                                                                      |
|                       | BASE RANGES (CORN)        | 2.7-30 ppb                                                                        | 0.1-8 ppm                                                                         | 0.1-10 ppm                                                                          | 50-500 ppb                                                                          | each strip listed to the left                                                       | each strip listed to the left                                                       |
|                       | EXTENDED RANGES (CORN)    | 30-300 ppb                                                                        | 2-30 ppm                                                                          | 2-100 ppm                                                                           | 250-2000 ppb                                                                        | each strip listed to the left                                                       | each strip listed to the left                                                       |
|                       | TEST TIME (MOST MATRICES) | 4 minutes                                                                         | 2 minutes                                                                         | 4 minutes                                                                           | 4 minutes                                                                           | 4 minutes                                                                           | 4 minutes                                                                           |
| COMPONENTS & REAGENTS | REACTION TUBES            | Included                                                                          | Included                                                                          | Included                                                                            | Included                                                                            | Included                                                                            | Included                                                                            |
|                       | PIPETTE TIPS              | Included                                                                          | Included                                                                          | Included                                                                            | Included                                                                            | Included                                                                            | Included                                                                            |
|                       | DILUTION BUFFER           | Included                                                                          | Included                                                                          | Included                                                                            | Included                                                                            | Included                                                                            | Included                                                                            |
|                       | EXTRACTION BUFFER         | Included                                                                          | Water                                                                             | Purchase Separately*                                                                | Purchase Separately*                                                                | Included                                                                            | Included                                                                            |

\*Only if not utilizing TotalTox common extraction

#### EQUIPMENT (SOLD SEPARATELY)

- QuickScan II (Cat. No. ACC 331)
- Incubator (Cat. No. ACC-BSH301)

#### AVAILABLE ACCESSORIES

- Extended range and large sample size accessory sets; everything you need to create and test extended range dilutions and larger sample sizes
- Extraction Sample Cups
- Pipettes
- Centrifuge
- Graduated Cylinder
- Filters



# GET TOTAL ACCESS TO TRACEABLE, GRANULAR DATA

QuickScan II is engineered with the speed and scope that lives up to its name. State-of-the-art software is packed into a streamlined machine that can read and record multiple, simultaneous mycotoxin and GMO tests in a single digital glance. The scanner's flexible design supports both TotalTox Strips and Combs. Results are exported for analysis or analyzed using on-board trend tracking software to enable the data-informed risk management practices that today's transparent grain supply-chain demands.

## RAPID

Read test strips and combs simultaneously, and record results in seconds

## READY

User-friendly, easy-access to results, reports, and quality checks

## ROBUST

Designed for dusty environments (or conditions) with built-in "clean test" and easy cleaning

## FLEXIBLE

Processes single strips and/or combs for multi GMOs and mycotoxins

## PRECISE

Lot-specific quantitative curves in calibration-free barcode system

## TRACEABLE

Instant-result access for archiving, emailing, and trend analysis

## QUICKSCAN II IS DESIGNED WITH THE SPEED OF YOUR BUSINESS IN MIND

Simultaneous scans of TotalTox Strips and Combs read and record multi-toxin tests in a single step.





### QUICKSCAN SOFTWARE

Makes gathering and reporting results easy. And not just test data—you get inventory management and on-board analytics, as well as quality reminders and enforcement.

### FULL COLOR TOUCHSCREEN

Integrated touchscreen makes entering data and viewing results a breeze.

### ROBUST DESIGN

Integrated tablet and reader reduces footprint. Robust design, for use in dusty environments.

### HIGH THROUGHPUT CARRIER

The most efficient reader on the market allows for up to 22 tests. Capture all pertinent test results in one scan and report.





For over 25 years, EnviroLogix has been proud to pioneer the GMO and mycotoxin testing that defines the nature of today's agricultural supply chain. Our products identify all commercial GMO traits, determine greater degrees of mycotoxin contamination, and deliver results on the most advanced diagnostic readers available. Our passionate commitment to research and development continues to drive this generation of grain testing innovation, and the next. It's the work that's put us where we intend to stay...

## **ONE STEP AHEAD IN THE FIELD.**











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