



MYCOTOXINS

# AgraQuant®

## Mycotoxin ELISA Test Kits

Romer Labs® has developed a rapid, quantitative enzyme-linked immunosorbent assay (ELISA) for the analysis of mycotoxins in grains, nuts, cereals and other commodities including animal feeds.

### How the test works

AgraQuant® Mycotoxin products are direct competitive enzyme-linked immunosorbent assays (ELISA). One universal sample extraction using a 70% methanol solution can be applied to analyze six classes of mycotoxins with eight different kits. Some kits apply a dilution of the sample extract to reduce matrix effects.

After combining sample extract or calibrators and enzyme conjugated toxin in the antibody coated well the competitive reaction takes 10 – 60 min (first incubation). Subsequent washing removes unbound reactants followed by the addition of substrate starting a color reaction that takes 5 – 20 min

(second incubation). The intensity of the color is inversely proportionate to the concentration of mycotoxin in the sample or standard. A stop solution prevents further development of the color reaction enabling reproducible measurements of the intensity using a microwell reader. Results can be interpreted by using Romer Labs spreadsheets.

### Kit contents

Each kit comes complete with 5 to 6 standards, 48 or 96 antibody-coated microwells, 48 or 96 color-coded dilution microwells, conjugate, substrate and stop solution.



### PRODUCT FEATURES

#### Easy

- One sample extraction to analyze six mycotoxins
- Simple workflow and no clean up steps required

#### Convenient

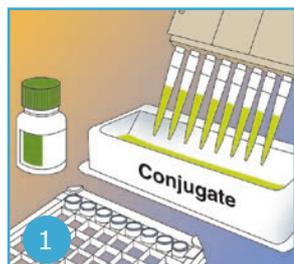
- Wide range of validated commodities
- Up to 30 minutes reading time after stopping the reaction

#### Cost-effective

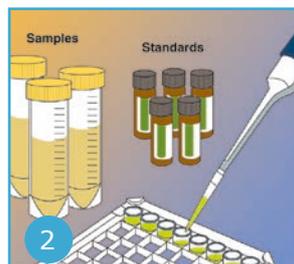
- 48 or 96 breakaway microwell format
- Minimizes waste and maximizes value

# AgraQuant<sup>®</sup> Mycotoxin ELISA Test

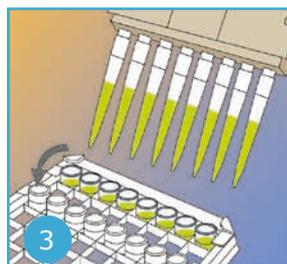
Read the kit insert before running the test.



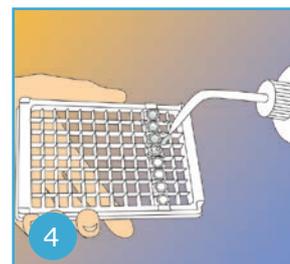
1 Add 200 µL conjugate into each color-coded dilution well.



2 Add 100 µL standards or samples to the conjugate.



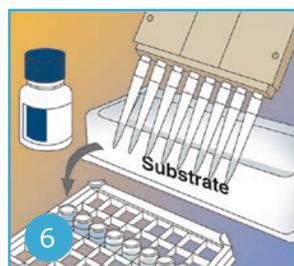
3 Mix well. Transfer 100 µL content to antibody-coated wells. Incubate for 5 – 60 minutes.



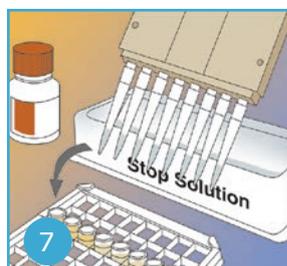
4 Discard contents from the wells and wash wells with deionized water or buffer solution (5x).



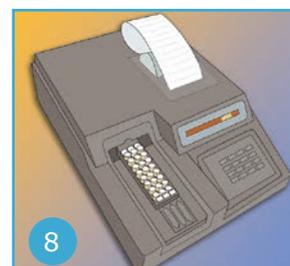
5 Tap dry the wells on absorbent paper towel.



6 Add 100 µL substrate into each well. Incubate for 5 – 20 minutes.



7 Add 100 µL stop solution into each well.



8 Analyze results using an ELISA reader with 450 nm filter.

## Ordering Information - AgraQuant<sup>®</sup> Mycotoxin Test Kits

Item No.	Description	Part Number	Quantitation Range
AgraQuant <sup>®</sup> Total Aflatoxin	96/48 wells	10002098/10002099	4 – 40 ppb
AgraQuant <sup>®</sup> Total Aflatoxin	96/48 wells	10002100/10002101	1 – 20 ppb
AgraQuant <sup>®</sup> Aflatoxin M1 Sensitive	96/48 wells	10002116/10002117	25 – 500 ppt
AgraQuant <sup>®</sup> Aflatoxin M1 Plus	96/48 wells	10002118/10002119	100 – 2000 ppt
AgraQuant <sup>®</sup> Aflatoxin M1 High Sensitivity	96/48 wells	10002120/10002121	5 – 100 ppt
AgraQuant <sup>®</sup> Aflatoxin B1	96/48 wells	10002122/10002123	2 – 50 ppb
AgraQuant <sup>®</sup> Deoxynivalenol	96/48 wells	10002106/10002108	250 – 5000 ppb
AgraQuant <sup>®</sup> Fumonisin	96/48 wells	10002104/10002105	250 – 5000 ppb
AgraQuant <sup>®</sup> Ochratoxin	96/48 wells	10002102/10002103	2 – 40 ppb
AgraQuant <sup>®</sup> T-2 Toxin	96/48 wells	10002113/10002114	20 – 500 ppb
AgraQuant <sup>®</sup> Zearalenone Plus	96/48 wells	10002111/10002112	25 – 1000 ppb

Romer Labs Inc. - America · Newark, DE, USA · T +1 302 781 6400 · F +1 302 781 6378 · E office@romerlabs.com

Romer Labs Diagnostic GmbH - Europe · Tulln, Austria · T +43 2272 615 33 · F +43 2272 615 33 13177 · E office-europe@romerlabs.com

Romer Labs Singapore Pte. Ltd. - Asia · Singapore · T +65 6631 8018 · F +65 6275 5584 · E salesasia@romerlabs.com



MYCOTOXINS

# AgraStrip®

## Qualitative Test Kits

for Total Aflatoxins (B1, B2, G1, G2)



Analyze total aflatoxin at 3 cutoff levels (4 ppb, 10 ppb and 20 ppb) on-site in only 5 minutes with minimal equipment.

### How the test works

The AgraStrip® qualitative tests determine the presence of total aflatoxin in commodities such as corn and peanuts, among others. The qualitative test strips analyze total aflatoxin at three cutoff levels, namely 4 ppb, 10 ppb and 20 ppb.

The cutoff levels allow for an easy visual interpretation of the results after 5 minutes assay time.

### Applications

A variety of commodities such as grains, grain products and peanuts can be analyzed. Please refer to current application notes for your commodity of interest.

### Kit Contents

Each kit includes test strips, conjugate wells, assay diluent, pipette tips, microwell holder, and (optionally) whirlpack bags to perform 24 tests.

### PRODUCT FEATURES

#### On site

- Test procedure without equipment
- Minimal materials needed
- Storage at 2 – 25 °C

#### Fast

- 5-minute assay
- Only two pipetting steps

#### Easy

- No sophisticated training necessary
- Visual interpretation of results

### Ordering Information - AgraStrip® Qualitative Test

Item	Description	Part Number	Cutoff Level
AgraStrip® Aflatoxin 20 ppb	24 Tests	10002126	20 ppb
AgraStrip® Aflatoxin 4 ppb	24 Tests	10002129	4 ppb
AgraStrip® Aflatoxin 10 ppb	24 Tests	10002131	10 ppb

# AgraStrip® Total Aflatoxin

Please read the kit insert completely before performing any test.



1 Break off number of wells needed and place them in the rack



2 Pipette 50 µL of assay diluent into each wells



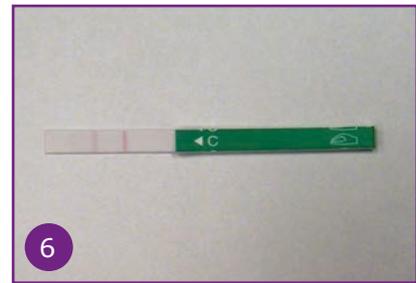
3 Add 50 µL of sample extract into each well and mix



4 Put one strip into each well



5 Allow 5 minutes reaction time



6 Interpret results

## Interpretation of results:

A colored line will always appear at the top of the test strip to indicate that the test strip is functioning properly. This line is the control line.

### Negative:

Aflatoxin less than cutoff level (two color lines)



### Positive:

Aflatoxin greater than or equal to the cutoff level (one control line)



### Invalid results:

no control line





MYCOTOXINS

# AgraStrip®

## WATEX® *One for All*

One Extract, Four Tests

The *One for All* AgraStrip® water extraction enables quantitation of some of the most prevalent mycotoxins including aflatoxin, deoxynivalenol, fumonisin and zearalenone, all from the same sample extract. This eco-friendly, fast and reliable solution is designed for a field test environment.



**USDA-FGIS APPROVED TEST KIT SYSTEM**

### How the Test Works:

The AgraStrip® *One for All* WATEX® system determines the presence of mycotoxins in commodities such as corn and wheat. The mycotoxins are extracted using distilled water in combination with dissolvable extraction buffer bags. All WATEX® kits come with Whirl-Pak® bags that have an integrated filter membrane, so no additional filtration step is required. All mycotoxins can be analyzed from the same sample extract with the AgraStrip® test strips specific to each toxin.

### Applications

A variety of commodities can be analyzed. Please refer to current application briefs for your commodity and mycotoxin of interest.

### Validations

AgraStrip® WATEX® Total Aflatoxin, Total Fumonisin and Zearalenone methods are USDA-FGIS approved.

### Kit Contents

Each kit contains test strips, extraction buffer bags, microwells coated with antibody particle complex (conjugate), assay dilution buffer, yellow/white pipette tips, blue pipette tips, microcentrifuge tubes (dilution tubes) and Whirl-Pak® bags with filter to analyze up to 24 samples.

### PRODUCT FEATURES

#### Fast Method

- One sample extraction to analyze four mycotoxins
- Assay time of only three minutes

#### Simple Operation

- No sophisticated training required
- No filtration or centrifugation step needed
- No buffer preparation needed

#### Reliable Results

- Validated according to USDA-FGIS standards
- Outstanding accuracy and reproducibility



# AgraStrip® WATEX®

Read the package insert instructions completely before performing any test.



**WATEX®**  
One for All  
WATER EXTRACTION

## 3-Step Procedure

### 1 One Water Extraction



Add sample and buffer bag



Add distilled water



Shake and let settle

**3**  
minute  
assay

### 2 Select Test and Perform Test Specific Dilution



Select Aflatoxin, Zearalenone, Deoxynivalenol or Fumonisin AgraStrip® WATEX® Test



Dilute the sample extract with the kit-specific dilution buffer

### 3 Assay



Add diluted extract and strip to conjugate well in the incubator and develop for 3 minutes



Scan the calibration curve and read results

## Ordering Information - AgraStrip® WATEX® Quantitative Test

Product	Description	Item Number	Quantitation Range
AgraStrip® WATEX® Total Aflatoxin Quantitative Test	24 Tests	10002139, 10002138*	0 – 500 ppb
AgraStrip® WATEX® Total Fumonisin Quantitative Test	24 Tests	10002146, 10002145*	0 – 30 ppm
AgraStrip® WATEX® Deoxynivalenol Quantitative Test	24 Tests	10002150	0 – 30 ppm
AgraStrip® WATEX® Zearalenone Quantitative Test	24 Tests	10002153, 10002152*	0 – 1 ppm
AgraVision™ Set-Up	Reader, Printer, Incubator, Tweezer	10002425	n/a

\* To perform test according to FGIS protocol, please use these kits which include material for 50 g sample extraction.