



AgraQuant[®]

Mycotoxin ELISA test kits

AgraQuant[®] mycotoxin test kits are rapid, quantitative enzyme-linked immunosorbent assays (ELISA) for analyzing mycotoxins in grains, nuts, cereals and other commodities, including animal feeds.

How the test works

AgraQuant[®] mycotoxin test kits are direct competitive enzyme-linked immunosorbent assays (ELISA).

A single sample extraction using a 70% methanol solution is applicable to seven of the ten available AgraQuant[®] mycotoxin kits. These kits are used to analyze total aflatoxin, aflatoxin B1, fumonisin, ochratoxin A, and zearalenone. The aflatoxin M1, deoxynivalenol, T-2 and T-2/HT-2 kits come with a slightly different extraction. Additionally, some kits require the dilution of the sample extract to mitigate matrix effects.

After the sample extract or calibrators are combined with the enzyme-conjugated toxin in the antibody-coated well, the competitive reaction takes 10 to 60 minutes (first incubation). Subsequent washing removes unbound reactants. Then, the addition of substrate begins a color reaction lasting 5 to 20 minutes (second incubation). The intensity of the resulting color is inversely proportional to the concentration of mycotoxin in the sample or standard. A stop solution is added to prevent further development of the color reaction, which enables reproducible measurements of the intensity using a microwell reader. Results obtained from the reader are interpretable using spreadsheets provided free of charge by Romer Labs.

Kit contents

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



Features and Benefits

Streamlined testing

- **Efficient analysis:** Analyzes up to five mycotoxins from one extraction, streamlining testing by reducing complexity and time.
- **Simplified workflow:** Integrated workflow with fewer steps, no extra clean-up needed, leading to smoother lab operations.

Versatile and convenient

- **Broad compatibility:** Validated for various commodities, useful in diverse testing scenarios.
- **Flexible timing:** Allows a 30-minute reading window post-reaction, aiding batch processing and time management in labs.

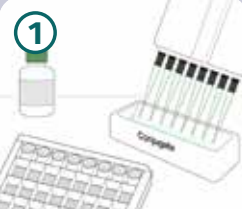


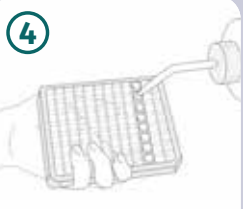




Cost-effective and eco-friendly

- **Adaptable formats:** Available in 48 and 96-well formats with a breakaway design, catering to different testing needs.
- **Resource optimization:** Supports varying test volumes, thereby reducing waste and enhancing environmental responsibility.



AgraQuant® Mycotoxin ELISA test kits

Carefully read the product manual before performing any test. The order of some steps as well as specific instructions may differ depending on the kit and application.

 <p>1 Add 200 µL conjugate into each dilution well.</p>	 <p>2 Add 100 µL standards or samples to the conjugate.</p>	 <p>3 Mix well. Transfer 100 µL of the mixture to antibody-coated wells. Incubate for 10 – 60 minutes.</p>	 <p>4 Discard contents from the wells and wash wells with deionized water or buffer solution (5x).</p>
 <p>5 Tap dry the wells on absorbent paper towel.</p>	 <p>6 Add 100 µL substrate into each well. Incubate for 5 – 20 minutes.</p>	 <p>7 Add 100 µL stop solution into each well.</p>	 <p>8 Analyze results using an ELISA reader with a 450 nm filter; we recommend a 630 nm differential filter.</p>

Ordering Information

Item	Description	Quantitation Range	Item No.
AgraQuant® Total Aflatoxin	96/48 wells	4 – 40 ppb	10002098/10002099
AgraQuant® Total Aflatoxin	96/48 wells	1 – 20 ppb	10002100/10002101
AgraQuant® Aflatoxin M1 Sensitive	96/48 wells	25 – 500 ppt	10002116/10002117
AgraQuant® Aflatoxin M1 High Sensitivity	96/48 wells	5 – 100 ppt	10002120/10002121
AgraQuant® Aflatoxin B1	96/48 wells	2 – 50 ppb	10002122/10002123
AgraQuant® Deoxynivalenol Plus	96/48 wells	0.25 – 5.0 ppm	10006638/10006639
AgraQuant® Fumonisin	96/48 wells	0.25 – 5.0 ppm	10002104/10002105
AgraQuant® Ochratoxin	96/48 wells	2 – 40 ppb	10002102/10002103
AgraQuant® T-2 Toxin	96/48 wells	20 – 500 ppb	10002113/10002114
AgraQuant® T-2/HT-2	96/48 wells	24 – 500 ppb	10006953/1006954
AgraQuant® Zearalenone Plus	96/48 wells	25 – 1000 ppb	10002111/10002112



AgraStrip® Pro WateX®

AgraVision™ Pro

The AgraStrip® Pro WATEX® test system enables the rapid and simple on-site quantification of mycotoxins in a variety of agricultural commodities. Both extraction and assay have been streamlined, reducing steps to a bare minimum while setting new standards in accuracy and usability.

Product Description

AgraStrip® Pro WATEX® test kits are lateral flow devices for the rapid, on-site detection of mycotoxins in a variety of agricultural commodities.

Strips are available for total aflatoxins (B1, B2, G1, G2), deoxynivalenol, ochratoxin A, zearalenone, total fumonisins (B1, B2, B3), and T-2/HT-2 toxins.

With the newly developed AgraVision™ Pro reader, the system features a shared extraction and dilution procedure and an intuitive walk-away operation to allow simple testing for several different mycotoxins in less than 10 minutes while helping to eliminate common handling errors.

The system can independently and simultaneously test up to 4 samples. The assay takes only 4 minutes, and the reader controls timing, temperature and flow, all in a streamlined procedure. With its integrated incubator and resistance to dust and dirt, the reader secures precise and quantitative results and allows consistent documentation.

Our proprietary water-based extraction eliminates hazards both to the user and the environment.

Applications

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

Approvals / Certifications

AOAC-PTM:	AgraStrip® Pro Total Aflatoxin WATEX®
USDA-FGIS:	AgraStrip® Pro Zearalenone WATEX®
	AgraStrip® Pro Ochratoxin A WATEX®

Kit Contents

AgraStrip® Pro WATEX® test kits come complete with strips, strip cartridges, microcentrifuge tubes and a holder, a dilution buffer, extraction buffer bags, pipette tips and Whirl-Pak® filter bags to analyze up to 40 samples.



Features and Benefits

Rapid

Up your grain intake with quick sample preparation, a 4-minute assay time and the capacity to test 4 samples at once on-site.

Simple

Eliminate errors with a common extraction/dilution and an intuitive, walk-away operation. No sophisticated training process required. The water-based extraction means no handling or disposal of organic solvents.

Robust

Precise results in the toughest of conditions thanks to the integrated incubator and resistance to dust and dirt.

Connected

Stay on top of your data with blockchain-enabled test strips. Automatically collect your data with the Romer Labs Data Manager. Transfer it to a PC, export it to LIMS or print it out.

Outstanding Support

You're not alone. Whether it's for validations, questions or custom solutions, our experts are there, whenever you need them.



AgraStrip® Pro Watex® AgraVision™ Pro

Carefully read the product manual before performing any test.

3-Step Procedure in Brief

1 Extract your sample

Add sample and buffer bag to the Whirl-Pak® filter bags.



Add distilled, deionized or bottled water.



Shake and let settle. Certain toxin-matrix combinations require an additional pre-centrifugation step (see commodity validation list).



2 Perform the test-specific dilution and centrifugation

Add assay dilution buffer to a microcentrifuge tube.



Transfer sample extract into the microcentrifuge tube and centrifuge for 30 seconds.



3 Run the assay with the AgraVision™ Pro reader

Transfer the cartridge with the strip to the reader and enter sample and test information.



Add sample extract to the cartridge. The reader starts the assay and displays results when finished.



4
minute
assay

Ordering Information

Item	Description	Item No.	Limit of Detection	Quantitation Range
AgraStrip® Pro Total Aflatoxin WATEX®	40 tests	10006322	2/1* ppb	0 – 460 ppb
AgraStrip® Pro Deoxynivalenol WATEX®	40 tests	10006320	0.1 ppm	0 – 44 ppm
AgraStrip® Pro Total Fumonisin WATEX®	40 tests	10006318	0.1 ppm	0 – 44 ppm
AgraStrip® Pro Ochratoxin A WATEX®	40 tests	10006332/10007198**	2/0.5* ppb	0 – 100 ppb
AgraStrip® Pro Zearalenone WATEX®	40 tests	10006316/10006317**	25 ppb	0 – 1650 ppb
AgraStrip® Pro T-2/HT-2 WATEX®	40 tests	10006614	15 ppb	0 – 1000 ppb
AgraVision™ Pro Reader	Reader	10006324		n/a
AgraVision™ Pro Printer	Printer	10006483		n/a
AgraVision™ Pro Scanner	Scanner	10006484		n/a

* High-sensitive method for aflatoxin and ochratoxin A available.

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