



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	Item No.
AgraQuant® Total Aflatoxin	COKAQ1100
AgraQuant® Total Aflatoxin	COKAQ1000
AgraQuant® Aflatoxin B1	COKAQ8000
AgraQuant® Ochratoxin	COKAQ2000
AgraQuant® Total Fumonisin	COKAQ3000
AgraQuant® DON	COKAQ4000
AgraQuant® ZON Plus	COKAQ5100
AgraQuant® T-2 Toxin	COKAQ6000
AgraQuant® T-2/HT-2 Toxin	COKAQ6100
AgraQuant® Aflatoxin M1	COKAQ7100
AgraQuant® Aflatoxin M1 Plus	COKAQ7200

CUSTOMER BENEFITS

Easy

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

Convenient

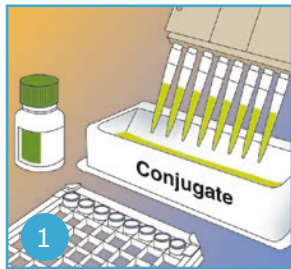
- Wide range of validated commodities
- Up to 30 minutes reading time after stopping the reaction

Cost-effective

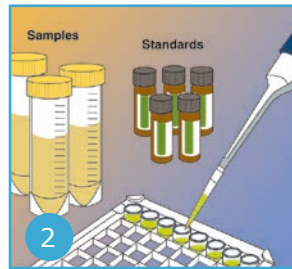
- 48 or 96 breakaway microwell format
- Minimizes waste and maximizes value

AgraQuant[®] Mycotoxin ELISA Test

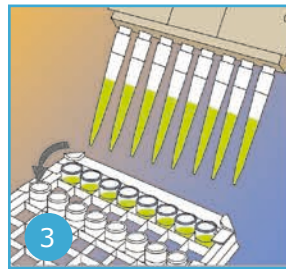
Read the kit insert before running the test.



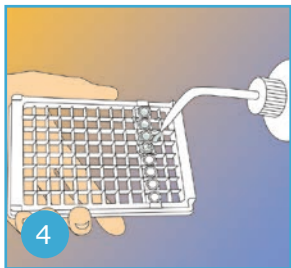
Add 200 μ L conjugate into each color-coded dilution well.



Add 100 μ L standards or samples to the conjugate.



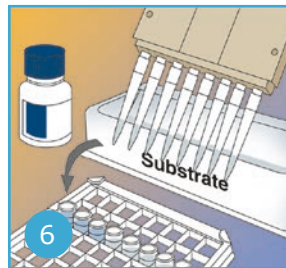
Mix well. Transfer 100 μ L content to antibody-coated wells. Incubate for 5 – 60 minutes.



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



Tap dry the wells on absorbent paper towel.



Add 100 μ L substrate into each well. Incubate for 5 – 20 minutes.



Add 100 μ L stop solution into each well.



Analyze results using an ELISA reader with 450 nm filter.