AgraQuant® Pro

Allergen ELISA Test Kits

AgraQuant® Pro Allergen test kits leverage cutting-edge sandwich ELISA technology for the sensitive and quantitative detection of specific allergen proteins across a broad range of food matrices. Samples range from raw and processed foods to environmental swabs and rinse water, with results reported in ppm protein.

How the test works

AgraQuant® Pro ELISA test kits utilize sandwich ELISA technology. Microwells are pre-coated with allergen-specific antibodies, and samples along with known standards are added to allow allergen binding. After washing, an enzyme-conjugated detection antibody is introduced to form a sandwich complex. A subsequent wash is followed by the addition of a substrate, resulting in a color change proportional to the allergen concentration. Finally, a stop solution shifts the color from blue to yellow, and absorbance is measured at 450 nm with a 630 nm reference within 10 minutes.

Content of the kit

- Set of 5 standards
- 48 antibody-coated microwells (96 wells for casein)
- 48 transfer microwells (96 wells for casein)
- 1 bottle of extraction solution
- 1 bottle of wash buffer (2 bottles for casein)
- 1 bottle of detection antibody
- 1 bottle of substrate
- 1 bottle of stop solution



Features and Benefits

High Sensitivity and Specificity

- Low detection limits validated on raw and processed foods
- Highly specific antibodies to reduce cross-reactivity
- Aligned with VITAL program guidelines and current regulatory standards

Streamlined Workflow

- User-friendly ELISA protocol
- Rapid incubation times support fast turnaround and efficient lab operations
- Transfer plate included to reduce the drift when adding samples and standards

Accurate, Actionable Results

- Results directly expressed as ppm protein, eliminating conversion factors
- Long-term antibody stock ensures product consistency and stable performance
- Backed by robust validation data across diverse matrices

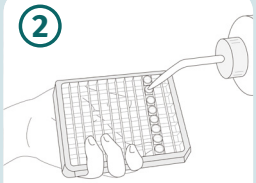
Comprehensive Support

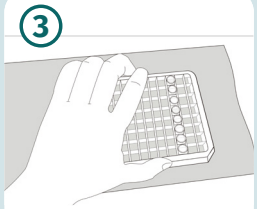
- Expert technical assistance for troubleshooting and method optimization
- Spiking solutions available for straightforward quality control and matrix validation

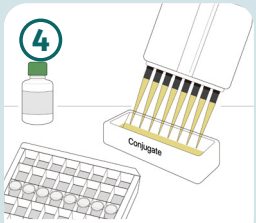
AgraQuant® Pro Allergens

Carefully read the product manual before performing any test.

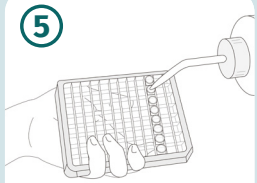
1. 
Add standards and samples to the antibody-coated wells and incubate for 20 min.

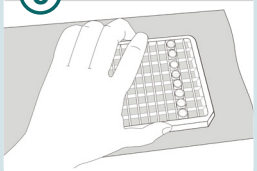
2. 
Discard contents from the wells and wash with wash buffer.

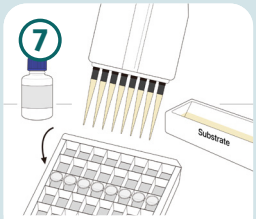
3. 
Tap to dry the plate.

4. 

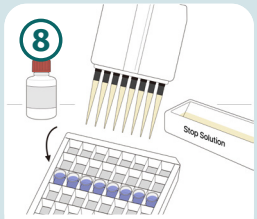
Add conjugate solution to the wells and incubate for 20 min.

5. 
Discard contents from the wells and wash with wash buffer.

6. 
Tap to dry the plate.

7. 

Add substrate solution to each well and incubate for 20 min in the dark.

8. 

Add stop solution to each well.

9. 
Using an ELISA plate reader, determine the absorbance at 450 nm using 630 nm as reference.

10. Calculate results according to the instructions in the product manual.

Available kits and corresponding spiking solutions

Item	Limit of Detection*	Quantitation range*	Item No.
AgraQuant® Pro Beta-Lactoglobulin	1,5 ppb of protein	10 - 200 ppb of protein	10007169
AgraQuant® Pro Casein	0,1 ppm of protein	0,2 - 6 ppm of protein	10007170
AgraQuant® Pro Egg	0,2 ppm of protein	0,4 - 10 ppm of protein	10007171
AgraQuant® Pro Hazelnut	0,02 ppm of protein	0,15 - 3,5 ppm of protein	10007075
AgraQuant® Pro Macadamia	0,1 ppm of protein	0,15 - 5 ppm of protein	10007149
AgraQuant® Pro Milk	0,05 ppm of protein	0,4 - 10 ppm of protein	10007173
AgraQuant® Pro Mustard	0,1 ppm of protein	0,6 - 18 ppm of protein	10007150
AgraQuant® Pro Peanut	0,1 ppm of protein	0,25 - 10 ppm of protein	10007151

* All units refer to whole allergen protein

Item	Item No.
AgraQuant® Pro BLG Spike Solution	10007261
AgraQuant® Pro Casein Spike Solution	10006689
AgraQuant® Pro Egg Spike Solution	10007206
AgraQuant® Pro Hazelnut Spike Solution	10007207
AgraQuant® Pro Macadamia Spike Solution	10007208
AgraQuant® Pro Milk Spike Solution	10007372
AgraQuant® Pro Mustard Spike Solution	10007204
AgraQuant® Pro Peanut Spike Solution	10007205

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