



Allergen ELISA Kits

Products

Egg (Ovalbumin) ELISA Kit II

Casein ELISA Kit II

Wheat/Gluten (Gliadin) ELISA Kit II

Peanut ELISA Kit II

Buckwheat ELISA Kit II

Beta-lactoglobulin ELISA Kit II

High sensitivity, Fast and Easy

***Especially, superior to
test for processed food.***



Intended Use

We offer innovative food allergen ELISA kits which can effectively solubilize and extract proteins from processed and unprocessed food. These kits use an innovative new extraction solution to achieve a high recovery rate of the target protein in both processed and unprocessed food.

Performance

Performance	
Assay range	0.31-20 ppm (μg protein /g food)
Limit of detection	0.31 ppm (μg protein /g food)
Limit of quantity	0.31 ppm (μg protein /g food)
Reproducibility	Intra-, Inter, Lot to Lot reproducibility:C.V.<10%
Sample extraction	Heating 10 min or shaking over night (at least 12 hours)
Assay time	110 min (excluding sample preparation/extraction)
Sample volume	0.1 mL
Sample number	40 samples (Duplicate)

Egg : ppm (μg egg protein /g food), Casein : ppm (μg milk protein /g food)
Gluten : ppm (μg wheat protein /g food), Peanut : ppm (μg peanut protein /g food)
Buchwheat : ppm (μg buchwheat protein /g food)
Beta-lactoglobulin : ppm (μg milk protein /g food)

High light

Innovative extraction method

Using an innovative extraction solution, the recovery of allergen protein is significantly increased.

Special antibodies

Our antibodies can detect the target allergen protein even after the exposure to extreme processing condition. Accordingly, the kits can apply for the examination of highly processed foods, as well as swab samples collected in various point of food processing.

Validation data of Allergen ELISA Kits

Sensitivity

	Egg	Casein	Gluten	Peanut	BLG	Buchwheat
Limit of detection	0.31 ppm	0.31 ppm	0.31 ppm	0.31 ppm	0.31 ppm	0.31 ppm
Limit of quantity	0.31 ppm	0.31 ppm	0.31 ppm	0.31 ppm	0.31 ppm	0.31 ppm

Egg : ppm (μg egg protein /g food), Casein : ppm (μg milk protein /g food)

Gluten : ppm (μg wheat protein /g food), Peanut : ppm (μg peanut protein /g food)

Representative test results of commercial foods

Food	Egg (ppm)
Biscuit	15,717
Bread	1,364
Custard pudding	20,283
Ham	22,631
Mayonnaise	2,645

Food	Casein (ppm)
Biscuit	1,448
Bread	276
Custard pudding	12,605
Ham	2,183
Wafers	8,149

Food	Gluten (ppm)
Biscuit	48,451
Bread	131,599
Baby food	1,106
Stew roux	64,371
Fried chicken	13,255

Food	Peanut (ppm)
Biscuit	10,106
Peanut butter	38,484
Peanut soup	4,548
Peanut cream	9,825

Egg : ppm (μg egg protein /g food), Casein : ppm (μg milk protein /g food)

Gluten : ppm (μg wheat protein /g food), Peanut : ppm (μg peanut protein /g food)

Cross reactivity of Allergen ELISA kits

Unit : ppm (μg protein /g food)

Food	Egg	Casein	Gluten	Peanut
Egg	>20	<0.31	<0.31	<0.31
Milk	<0.31	>20	<0.31	<0.31
Skim milk	<0.31	>20	<0.31	<0.31
Wheat	<0.31	<0.31	>20	<0.31
Barley	<0.31	<0.31	>20	<0.31
Rye	<0.31	<0.31	>20	<0.31
Oats	<0.31	<0.31	>20	<0.31
Soy bean	<0.31	<0.31	<0.31	<0.31
Corn flour	<0.31	<0.31	<0.31	<0.31
Peanut	<0.31	<0.31	<0.31	>20
Almond (Roasted)	<0.31	<0.31	2.36	<0.31
Cashew (Roasted)	<0.31	<0.31	<0.31	<0.31
Macadamia (Roasted)	<0.31	<0.31	<0.31	<0.31
Pistachio (Roasted)	<0.31	<0.31	<0.31	<0.31
Walnut (Roasted)	<0.31	<0.31	<0.31	<0.31
Sesame (Roasted)	<0.31	<0.31	<0.31	<0.31
Black pepper	<0.31	<0.31	<0.31	<0.31
Red pepper	<0.31	<0.31	0.52	<0.31
Cumin	<0.31	<0.31	1.36	<0.31
Coriander	<0.31	<0.31	1.13	<0.31
Poppy seed	<0.31	<0.31	1.08	<0.31
Shrimp	<0.31	<0.31	<0.31	<0.31
Crab	<0.31	<0.31	0.62	<0.31
Squid	<0.31	<0.31	<0.31	<0.31
Beef	<0.31	<0.31	<0.31	<0.31
Pork	<0.31	<0.31	<0.31	<0.31
Chicken	<0.31	<0.31	<0.31	<0.31

This data is representative. Please contact us when you need lot data you use.

Egg : ppm (μg egg protein /g food), Casein : ppm (μg milk protein /g food)

Gluten : ppm (μg wheat protein /g food), Peanut : ppm (μg peanut protein /g food)

Related Food Allergen Test Kits

Food Allergen Lateral Flow IIR (qualitative)

Product	Limit of Detection
Egg (Ovalbumin) Lateral Flow IIR	5 ppm
Casein Lateral Flow IIR	5 ppm
Gluten (Gliadin) Lateral Flow IIR	5 ppm
Peanut Lateral Flow IIR	5 ppm
Buchwheat Lateral Flow IIR	5 ppm

Egg : ppm (μg egg protein /g food), Casein : ppm (μg milk protein /g food)
Gluten : ppm (μg wheat protein /g food), Peanut : ppm (μg peanut protein /g food)
Buchwheat : ppm (μg buchwheat protein /g food)

Contact

For further information, please contact Morinaga Institute of Biological Science, Inc.

E-mail : info@miobs.com



Morinaga Institute of Biological Science, Inc.

E-mail : info@miobs.com

URL : <http://www.miobs-e.com>



Science for Good Health

In order to contribute to good health of people in the world, we provide products, service, and information which give value and inspiration by the research and development filled with the pioneer spirit.