



Allergen ELISA Test Kits

Food allergens are substances in food that can trigger allergic, sometimes life-threatening reactions in predisposed individuals. According to scientific reports, approximately 2-3% of adults and 6-8 % of children are affected by food allergies today. Food allergens may be present as an ingredient but also inadvertent via cross contamination when sharing food processing machines. Due to their potential harmful nature, the presence of certain allergens in food is regulated in EC directive 1169/2011, with Annex II listing those allergens that are required for notification by the manufacturer.

Immunolab features ELISA test kits for the detection and quantification of 24 food allergens that are required for notification. Wherever applicable, common sample extraction procedures were established for multiple allergen detections out of one sample extract. Due to the common ELISA processing scheme individual allergen ELISA strips can be combined in one frame and processed in parallel.

Spike solutions supplement Immunolab's allergen ELISA kits and help establish routine test schemes in a laboratory or facilitate the validation of new sample types. They are made from the same reference material as used for the calibrators of the corresponding ELISA test kit, but come in higher concentration. Since no international or even industry wide reference materials are available for food allergens, spike solutions provide for convenient to use reference samples that fit into Immunolab's test scheme.

Features and Benefits

- Available in 48 and 96 well-testformat
- Validated protocols for fully-automated processing
- Standardized test protocol with short assay time of 60 minutes (20/20/20 min)
- Quantitative results based on superior 4PL curve fitting for calibration
- Microsoft Excel-based calculation & evaluation tool available
- Reagents (excl. wash buffer) ready-to-use
- Breakable microwell strips
- Simple extraction procedure without further purification steps
- Incubation at room temperature
- High stability, accuracy and reproducibility
- Min. shelf life 13 months for new lots

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Technical Performance Data

Analyte	ELISA Kit (96 Tests) Cat. No.	ELISA Kit (48 Tests) Cat. No.	LOD	LOQ	Reference Range	Recovery	Precision (intra-assay)	Common Sample Preparation	Spike Solution Cat. No.	Spike Solution Concentration
Almond	ALM-E01	ALM-E04	0.2 ppm	0.4 ppm	0 – 10 ppm	69 – 107%	3 – 9%	1	ALM-S01	1000 ppm
Beta-Lactoglobulin	BLG-E01	BLG-E04	1.5 ppb	10 ppb	0 – 400 ppb	70 – 107%	7%	1	BLG-S01	10,000 ppb
Casein	CAS-E01	CAS-E04	0.04 ppm	0.2 ppm	0 – 6 ppm	80 – 102%	5 – 11%	3	CAS-S01	1000 ppm
Cashew	CAW-E01	CAW-E04	0.2 ppm	2 ppm	0 – 60 ppm	93 – 109%	4 – 5%	1	CAW-S01	1000 ppm
Coconut	CON-E01	CON-E04	0.4 ppm	2 ppm	0 – 30 ppm	74 – 102%	4%	1	CON-S01	1000 ppm
Crustaceans (Tropomyosin)	CRU-E01	CRU-E04	0.9 ppb	20 ppb	0 – 400 ppb	84 – 97%	6 – 8%	2	CRU-S01	10,000 ppb
Egg White	EGG-E01	EGG-E04	0.05 ppm	0.4 ppm	0 – 10 ppm	82 – 98%	4 – 9%	1	EGG-S01	1000 ppm
Fish (Parvalbumin)	FIS-E01	FIS-E04	1.4 ppm	4 ppm	0 – 100 ppm	93 – 117%	7 – 12%	4	FIS-S01	1000 ppm
Gluten / Gliadin	GLU-E02	GLU-E04	0.3 ppm	2 ppm	0 – 60 ppm	85 – 98%	4 – 5%	5	GLU-S01	25,000 ppm
Hazelnut	HAZ-E01	HAZ-E04	0.3 ppm	1 ppm	0 – 40 ppm	83 – 101%	7 – 12%	1	HAZ-S01	1000 ppm
Lupin	LUP-E01	LUP-E04	0.2 ppm	2 ppm	0 – 30 ppm	98 – 113%	6 – 9%	1	LUP-S01	1000 ppm
Lysozyme	LYS-E01	LYS-E04	2 ppb	25 ppb	0 – 250 ppb	85 – 99%	2 – 6%	1	LYS-S01	10,000 ppb
Macadamia nut	MAC-E01	MAC-E04	0.1 ppm	1 ppm	0 – 40 ppm	83 – 106%	2 – 5%	1	MAC-S01	1000 ppm
Milk	MIL-E01	MIL-E04	0.05 ppm	0.4 ppm	0 – 10 ppm	79 – 122%	8 – 10%	3	MIL-S01	1000 ppm
Molluscs	MOL-E01	MOL-E04	1.7 ppb	10 ppb	0 – 400 ppb	74 – 110%	5 – 6%	2	MOL-S01	10,000 ppb
Mustard	MUS-E01	MUS-E04	1 ppm	2 ppm	0 – 60 ppm	76 – 98%	8%	1	MUS-S01	1000 ppm
Ovalbumin	OVA-E01	OVA-E04	4 ppb	25 ppb	0 – 250 ppb	95 – 115%	3 – 4%	1	OVA-S01	10,000 ppb
Brazil Nut	PAR-E01	PAR-E04	0.2 ppb	1 ppm	0 – 40 ppm	76 – 112%	8%	1	PAR-S01	1000 ppm
Peanut	PEA-E01	PEA-E04	0.1 ppm	1 ppm	0 – 40 ppm	90 – 110%	7 – 10%	1	PEA-S01	1000 ppm
Pecan Nut	PEC-E01	PEC-E04	0.2 ppm	2 ppm	0 – 60 ppm	78 – 114%	8%	1	PEC-S01	1000 ppm
Pistachio	PIS-E01	PIS-E04	0.13 ppm	1 ppm	0 – 40 ppm	81 – 96%	6 – 8%	1	PIS-S01	1000 ppm
Sesame	SES-E01	SES-E04	0.2 ppm	2 ppm	0 – 30 ppm	85 – 109%	5 – 12%	1	SES-S01	1000 ppm
Soy (Soy trypsin inhibitor)	SOJ-E01	SOJ-E04	16 ppb STI	40 ppb STI	0 – 1000 ppb	77 – 106%	6 – 8%	1	SOJ-S01	10,000 ppb
Walnut	WAL-E01	WAL-E04	0.35 ppm	2 ppm	0 – 60 ppm	75 – 106%	4 – 9%	1	WAL-S01	1000 ppm

