



## Food Allergen Test Kits and Instruments

Food allergens are proteins in food which can trigger allergic, sometimes even life-threatening reactions in sensitized individuals. Managing food allergies usually means completely eliminating the allergenic proteins from one's diet, **requiring strict traceability throughout the food production process** from raw materials to the final product.

We provide the most comprehensive offering for food allergen rapid testing, including test kits, easy to use instruments, trainings and services, to suit your actual capabilities and needs.



### SENSISpec ELISA Kits

Full range of food allergen ELISA test kits which quickly and reliably detect the presence of potential allergens caused by cross-contaminations.



### Automation and Services

The BOLT™ and ThunderBolt® ELISA analyzers provide automation for the SENSISpec Allergen ELISA kits, whilst the Rapidscan LFD reader is designed for rapid field and in-process lateral flow testing. Services include maintenance and support, trainings, method development and validation.



### SENSIStrip Lateral Flow Tests

Lateral flow assays are sensitive and easy-to-use tools, well suited for fast in-process sampling at different stages of the food manufacturing process.

Discover our new **PowerLine portfolio** to eliminate false negatives due to the hook effect (excess of allergens).



### DNAllergen RT-PCR Kits

Our new range of RT-PCR kits allow the detection of some specific allergens and show no cross-reactivity with related species.

## SENSISpec Allergen Detection ELISA Kits

Comprehensive ELISA test kit portfolio with in-house automation solution to simplify rapid allergen testing.

- Quick and sensitive method (low limits of detection)
- Validated protocols for ELISA robots
- Quantitative results, ready-to-use reagents
- High stability, accuracy and reproducibility
- Incubation at room temperature
- Minimum shelf life of 13 months

Article No.*	ELISA kits	No. of wells	LOD (ppb)	Quantitation range
HU0030001	SENSISpec ELISA Almond	96	200	0.4 - 10 ppm
HU0030002	SENSISpec ELISA Beta-Lactoglobulin	96	1.5	10 - 400 ppb
HU0030144	SENSISpec ELISA Buckwheat	96	60	0.06-0.35 ppm
HU0030003	SENSISpec ELISA Casein	96	40	0.2 - 6 ppm
HU0030004	SENSISpec ELISA Cashew	96	200	2 - 60 ppm
HU0030005	SENSISpec ELISA Coconut	96	400	2 - 30 ppm
HU0030006	SENSISpec ELISA Crustaceans (Tropomyosin)	96	0.9	20 - 400 ppb
HU0030007	SENSISpec ELISA Egg White	96	50	0.4 - 10 ppm
HU0030008	SENSISpec ELISA Fish (Parvalbumin)	96	1400	4 - 100 ppm
HU0030010	SENSISpec ELISA Hazelnut	96	300	1 - 40 ppm
HU0030011	SENSISpec ELISA Lupin	96	200	2 - 30 ppm
HU0030012	SENSISpec ELISA Lysozyme	96	2	25 - 250 ppb
HU0030013	SENSISpec ELISA Macadamia nut	96	100	1 - 40 ppm
HU0030014	SENSISpec ELISA Milk	96	50	0.4 - 10 ppm
HU0030015	SENSISpec ELISA Molluscs (Tropomyosin)	96	1.7	10 - 400 ppb
HU0030016	SENSISpec ELISA Mustard	96	1000	2 - 60 ppm
HU0030017	SENSISpec ELISA Ovalbumin	96	4	25 - 500 ppb
HU0030018	SENSISpec ELISA Brazil Nut	96	200	1 - 40 ppm
HU0030019	SENSISpec ELISA Peanut	96	100	1 - 40 ppm
HU0030020	SENSISpec ELISA Pecan Nut	96	200	2 - 60 ppm
HU0030021	SENSISpec ELISA Pistachio	96	130	1 - 40 ppm
HU0030022	SENSISpec ELISA Sesame	96	200	2 - 30 ppm
HU0030023	SENSISpec ELISA Soy	96	16	40 - 1000 ppb
HU0030075	SENSISpec Soy Protein Total ELISA **	96	200	2 - 36 ppm
HU0030024	SENSISpec ELISA Walnut	96	350	2 - 60 ppm

\* All kits are available in 48 wells size, too

\*\* High sensitivity for pre treated samples; detects Total Soy Protein (not only the Soy Trypsin Inhibitor)

## DNAllergen RT-PCR Kits

The RT-PCR kits complete our allergen offer with molecular testing method. This technique enables the detection of some specific allergens which are not easy to identify by immunoassays (e.g. celery), and show no cross-reactivity with related species (e.g. mustard and rapeseed).

- Compatible with all kinds of cyclers on the market
- Cost-effective product with 50 reaction formats per kit
- Detection of some specific allergens and no cross-reactivity; higher sensitivity

Article No.	RT-PCR kits	Article No.	RT-PCR kits	Article No.	RT-PCR kits
HU0030189	DNAllergen Almond	HU0030192	DNAllergen Hazelnut	HU0030196	DNAllergen Peanut
HU0030190	DNAllergen Celery	HU0030193	DNAllergen Molluscs	HU0030197	DNAllergen Sesame
HU0030191	DNAllergen Fish	HU0030194	DNAllergen Mustard	HU0030198	DNAllergen Soy
		HU0030195	DNAllergen Oat		

## SENSISpec Gluten Detection ELISA Kits

Gluten intolerance is characterized by adverse reactions to gluten, a group of proteins found in wheat, barley and rye. People with celiac disease or gluten sensitivity need to avoid gluten containing foods that trigger symptoms. **The European Directive 2007/68/CE assures the adequate labelling of foodstuffs, stating the ingredients that cause allergies and food intolerance, including gluten.** This legislation implies a strict control by the food industry and the traceability of the food production process, from raw material to final product.

In order to comply with this objective, the food industry requires adequate tools to monitor their entire process in a quick and reliable manner.

We offer a comprehensive range of gluten detection kits using **the R5 monoclonal antibody.**



The SENSISpec INgezim Gluten R5 test method has been evaluated and approved by the AOAC Research Institute Performance Tested Methods<sup>SM</sup> Program for use with gluten free bread, oat flour and stainless steel surfaces, and has been assigned PTM Certification No. 052005.

Article No.	Gluten ELISA kits	No. of wells	LOD (ppb)	Quantitation range
30.GLU.K.2.	SENSISpec INgezim Gluten R5 / PTM Certificate #052005	96	3000	3 - 200 ppm
30.GL2.K.2.	SENSISpec INgezim Gluten Quick	96	3000	3 - 200 ppm
30.GLH.K.2.	SENSISpec INgezim Hydrolyzed Gluten	48	250	0.25 - 200 ppm
30.GSQ.K.2.	SENSISpec INgezim Gluten Semi Q	32	10000	10 - 800 ppm

For gluten rapid testing, check our Gluten LFD kits, including the new SENSIStrip Gluten PowerLine!

## SENSISpec Allergen Spike Solutions

Our SENSISpec Allergen Spiking Solutions can be used to produce positive control samples suitable for validation of all SENSISpec Allergen ELISA kits, such as determination of recovery rate in a spike/recovery assay and matrix interference in a linearity assay. **SENSISpec Spike Solutions are available for all allergen ELISA Kits.**

## Automation Solutions

Gold Standard Diagnostics offers a broad menu of innovative, fully-automated, user friendly and compact instruments to simplify laboratory experience. These industry-leading instruments are the standard platforms for our ELISA-based food testing kits.

### ELISA-processing robots: ThunderBolt® and The BOLT™

Fully automated ELISA analyzers with validated protocols for: Almond, Casein, Egg White, Gluten, Hazelnut, Lupin, Milk, Mustard, Peanut, Soy,  $\beta$ -Lactoglobulin



#### The BOLT™

##### 1-plate ELISA Analyzer

- Intuitive User Interface
- Space Saving Device
- Low Consumable Costs
- High Precision Syringes
- Competitive Pricing



#### ThunderBolt®

##### 2-plate ELISA Analyzer

- Intelligent Racks
- On-Board Camera
- Intuitive, Open, Flexible Software
- Built-in Reader
- High Precision Micro-Syringe

### Compact microplate reader: GSD Absorbance 96

The most compact microplate reader for 96-well assays, compatible with all our ELISA plates. A highly robust device which delivers precise and accurate results whilst providing a maintenance-free user experience.





## SENSIStrip Lateral Flow Tests

Article No.	Lateral flow kits	No. of tests	LOD - finished product	LOD - Surface
HU0030110	SENSIStrip Almond	20	2.5 ppm	0.007 µg/cm <sup>2</sup>
HU0030111	SENSIStrip Beta-Lactoglobulin	20	100 ppb	0.27 ng/cm <sup>2</sup>
HU0030112	SENSIStrip Casein	20	0.5 ppm	0.001 µg/cm <sup>2</sup>
HU0030113	SENSIStrip Cashew	20	2.5 ppm	0.007 µg/cm <sup>2</sup>
HU0030114	SENSIStrip Coconut	20	5 ppm	0.013 µg/cm <sup>2</sup>
HU0030115	SENSIStrip Crustaceans (Tropomyosin)	20	25 ppb	0.2 ng/cm <sup>2</sup>
HU0030116	SENSIStrip Egg White	20	0.5 ppm	0.001 µg/cm <sup>2</sup>
HU0030117	SENSIStrip Fish	20	6 ppm	16 ng/cm <sup>2</sup>
HU0030118	SENSIStrip Gluten	20	4 ppm	1.6 ng/cm <sup>2</sup>
HU0030134	SENSIStrip Gluten PowerLine <b>NEW!</b>	20	4 ppm	1.6 ng/cm <sup>2</sup>
HU0030119	SENSIStrip Hazelnut	20	2.5 ppm	0.007 µg/cm <sup>2</sup>
HU0030120	SENSIStrip Lupin	20	0.3 ppm	0.001 µg/cm <sup>2</sup>
HU0030121	SENSIStrip Lysozyme	20	50 ppb	0.13 ng/cm <sup>2</sup>
HU0030122	SENSIStrip Macadamia nut	20	2.5 ppm	0.007 µg/cm <sup>2</sup>
HU0030123	SENSIStrip Milk Protein	20	1 ppm	0.003 µg/cm <sup>2</sup>
HU0030136	SENSIStrip Multi Tree Nut <b>NEW!</b>	20	N/A	0.16 µg/cm <sup>2</sup>
HU0030125	SENSIStrip Mustard	20	2.5 ppm	0.007 µg/cm <sup>2</sup>
HU0030126	SENSIStrip Ovalbumin	20	0.1 ppm	0.001 µg/cm <sup>2</sup>
HU0030127	SENSIStrip Brazil nut	20	2.5 ppm	0.007 µg/cm <sup>2</sup>
HU0030128	SENSIStrip Peanut	20	2.5 ppm	0.007 µg/cm <sup>2</sup>
HU0030129	SENSIStrip Pecan nut	20	2.5 ppm	0.007 µg/cm <sup>2</sup>
HU0030130	SENSIStrip Pistachio	20	2.5 ppm	0.007 µg/cm <sup>2</sup>
HU0030131	SENSIStrip Sesame	20	2.5 ppm	0.007 µg/cm <sup>2</sup>
HU0030135	SENSIStrip Soy PowerLine <b>NEW!</b>	20	2.5 ppm	0.007 µg/cm <sup>2</sup>
HU0030132	SENSIStrip Total Soy Protein	20	2.5 ppm	0.007 µg/cm <sup>2</sup>
HU0030133	SENSIStrip Walnut	20	2.5 ppm	0.007 µg/cm <sup>2</sup>

All SENSIStrip kits are available in a 5-test format as well.



### Lateral Flow Reader for the SENSIStrip Kits

LFRSCAN002	RapidScan ST5 Lateral Flow Assay Reader
LFA0030001	LFD Reader Adapter for allergen strips

### SENSISwab Swabbing Kit

Article No.	Swab kits	No. of Swabs
HU0030101	SENSISwab kit, 10 ml Swabbing solution, 5 Swabs, 5 Sample tubes	5
HU0030102	SENSISwab 10x5: multipack of 10 Swab kits	50

