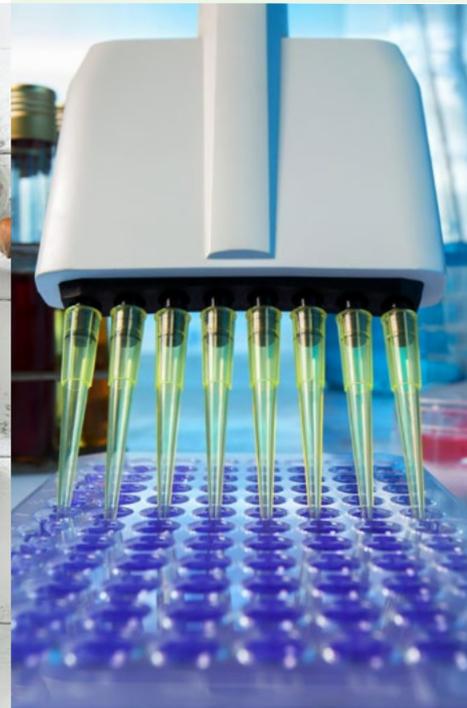


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**BIOTECON** Diagnostics

NEWSLETTER



NEWSLETTER

**For safer food – BIOTECON Diagnostics – simply builds up trust!**

## Welcome to our newsletter

Food allergens represent a ubiquitous risk for persons with severe allergic reactions. BIOTECON Diagnostics is now global distributor of Immunolab's Allergen-ELISA kits plus has a proprietary real-time PCR- portfolio line with allergen assays based on molecular biology techniques. Combination of ELISA and real-time PCR test kits help producers (and optional their 3<sup>rd</sup> party laboratories) to fulfill legal requirements and to secure the safety and reputation of their products. Find out more about our test kits in our newsletter!

Topics:

- ▶ Immunolab® ELISA allergen kits are now available via BIOTECON Diagnostics
- ▶ PCR kits for food allergen detection
- ▶ Our workshops in 2018
- ▶ Industry meetings in September 2018

#2 2018

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**BIOTECON** Diagnostics

NEWSLETTER

# Immunolab® ELISA allergen kits are now available via BIOTECON Diagnostics



## Quick and simple allergen detection via Immunolab® ELISA kits

BIOTECON Diagnostics proudly announces a comprehensive allergen portfolio expansion through distribution of Immunolab ELISA kits! This addition to our product line will further assist us to support manufacturers in fulfilling legal requirements and protecting their brand.

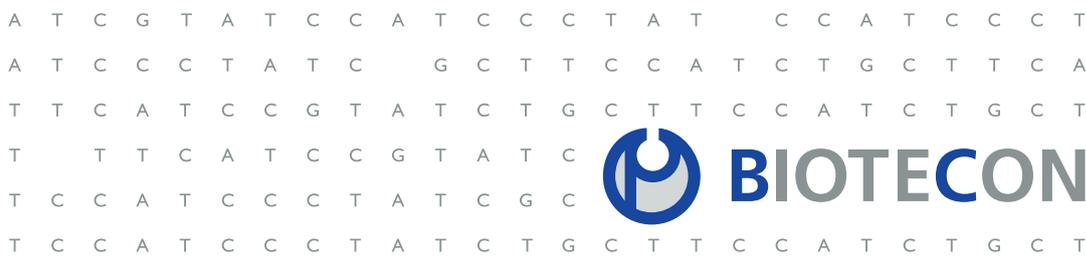
All products were developed and are produced by our partner Immunolab GmbH in Germany. All necessary approvals through internal and external validations, as well as by independent institutes have been completed so that the products are ready for international sale. The kits allow fast and simple detection while providing reliable results in a wide variety of matrices, e.g. fruit juices, beer, chocolate, baby food and meat. Well established ELISA technology and convenient lab procedures guarantee a simple and proven solution for specific protein detection.

Here are the product features:

- Extraction reagents are included in the kit
- Up to 95 % specificity
- Compatible with even difficult food matrices, e.g. chocolate and spices
- 48 or 96 reactions

## Immunolabs® ELISA allergen kits

- Simple and cost efficient approach for testing allergen proteins.
- **High sensitivity:** Depending on matrix and analyte – LOD down to 0.9 ppb.
- **Also for your country:** Detection ranges are merging with all international legislations and guidelines.
- **Complete range of parameters:** Kits for 24 different allergens are available.
- **Special highlight:** Fish (Parvalbumin) ELISA
- **Convenient and time saving:** Up to 18 out of those 24 parameters can be analyzed from one and the same extracted sample solution!



**Table 1. Detailed information Immunolab® ELISA kits**

Analyte	ELISA Kit Cat. No.	LOD	LOQ
Almond	Z750-ALM-E01	0.2 ppm	0.4 ppm
Beta-Lactoglobulin	Z750-BLG-E01	1.5 ppb	10 ppb
Brazil Nut	Z750-PAR-E01	0.2 ppm	1 ppm
Casein	Z750-CAS-E01	0.04 ppm	0.2 ppm
Cashew	Z750-CAW-E01	0.2 ppm	2 ppm
Coconut	Z750-CON-E01	0.4 ppm	2 ppm
Crustaceans (Tropomyosin)	Z750-CRU-E01	0.9 ppb	20 ppb
Egg White	Z750-EGG-E01	0.05 ppm	0.4 ppm
Fish (Parvalbumin)	Z750-FIS-E01	1.4 ppm	4 ppm
Gluten / Gliadin	Z750-GLU-E02	0.3 ppm	2 ppm
Hazelnut	Z750-HAZ-E01	0.3 ppm	1 ppm
Lupine	Z750-LUP-E01	0.2 ppm	2 ppm
Lysozyme	Z750-LYS-E01	2 ppb	25 ppb
Macadamia nut	Z750-MAC-E01	0.1 ppm	1 ppm
Milk	Z750-MIL-E01	0.05 ppm	0.4 ppm
Molluscs	Z750-MOL-E01	1.7 ppb	10 ppb
Mustard	Z750-MUS-E01	1 ppm	2 ppm
Ovalbumin	Z750-OVA-E01	4 ppb	25 ppb
Peanut	Z750-PEA-E01	0.1 ppm	1 ppm
Pecan Nut	Z750-PEC-E01	0.2 ppm	2 ppm
Pistachio	Z750-PIS-E01	0.13 ppm	1 ppm
Sesame	Z750-SES-E01	0.2 ppm	2 ppm
Soya (trypsin inhibitor)	Z750-SOJ-E01	16 ppb STI	40 ppb STI
Walnut	Z750-WAL-E01	0.35 ppm	2 ppm

All ELISA kits are available in sizes of 96 and 48 reactions and are tailored for customers with high or low sample throughput. The incubation time of 3 x 20 min allows high sensitivity even of trace amounts. All reagents for sample extraction are included in the kits. Additionally, we also offer corresponding spiking solutions made by Immunolab for the validation of extraction methods related to complicated sample matrices.

Would you like to learn more about allergen detection in food? Attend our workshop on 06.11.2018 in Potsdam! Please click [here](#) for registration details and further information.

Find more information about these quick quantitative allergen tests [here](#).

For more details and order information please contact:

[Erik Franzke](#)

**AVAILABLE:  
Now**

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## PCR kits for food allergen detection



The **foodproof**<sup>®</sup> real-time PCR detection kits enable highly sensitive and reliable DNA-based detection of allergenic food ingredients and accurate quantification based on an innovative reference material. For the detection of five food allergens, BIOTECON Diagnostics offers real-time PCR kits: gluten, soya, hazelnut, walnut and peanut.

### **foodproof**<sup>®</sup> Celery Detection Kit

Currently, no ELISA-based test with good specificity is available for celery. As even trace amounts of celery in food can trigger severe immune responses in consumers, multi-copy targets of the celery genome were used to increase the sensitivity of the PCR assay. Users may identify low amounts of celery DNA in flour and other processed foods.

The **foodproof**<sup>®</sup> Celery Detection Kit provides PCR primers, hydrolysis probes, and convenient premixed reagents for species-specific amplification and detection of celery DNA (*Apium graveolens*). The limit of detection was determined to be 1 celery genome equivalent and 0.1 ppm in a celery-spiked rice flour matrix. The limit of quantification was determined to be 0.8 ppm based on the threshold set by the standard curve.



Order No.: R 302 60

### **foodproof**<sup>®</sup> Celery Detection Kit

- Rapid and reliable detection of celery, gluten, soya, peanut, walnut and hazelnut in food samples by real-time PCR
- All real-time PCR kits contain a positive and negative control plus an internal control (IPC)
- Quantification is also possible In combination with the Allergen RM 800 reference material



**foodproof® Gluten Detection Kit**



Gluten is the only allergen parameter for which limits for labelling are defined according to 2003/89/EU & 2006/142/EU. The **foodproof®** Gluten Detection Kit was validated with a variety of food products, e.g. soup, sauces, spices, fast food, confectionery, pasta, muesli and bread. The **foodproof®** Gluten Detection Kit contains primers and hydrolysis probes sequence-specific for wheat, spelt, Khorasan wheat (Kamut), rye, barley, triticale and the Internal Control, respectively. Specificity of the assay was proven using 104 plant and animal species, as well as 27 commercial food products. The limit of detection was determined to be 0.1 genome equivalents and 0.1 - 1 ppm in spiked rice flour matrix for wheat, rye and barley, respectively. This PCR method for gluten analysis is in agreement with Codex Alimentarius and the respective EU regulations (DIN EN 15634-1:2009).

Absolute quantification is possible with both kits when used in combination with Allergen RM 800 reference material: Our products allow reliable quantification using a standard curve between allergen concentrations of 0.8 - 800 ppm.

**DNA extraction kits**

Isolation and purification of even trace amounts of DNA is obligatory for reliable analysis. Our foodproof DNA extraction kits enable fast and effective DNA extraction from various food and raw material matrices. In combination with the **foodproof®** Sample Preparation Kit III and the **foodproof®** Magnetic Preparation Kit III, DNA can be reliably detected in difficult matrices, such as spices and meat products.

**Revolutionary High-Throughput System**

BIOTECON Diagnostics also offers fully-automated DNA / RNA Extraction and PCR setup for allergen diagnostics – the **foodproof** RoboPrep Fusion®! [Learn more](#) about the perfect combination of a precise liquid handling robot with an attached and highly efficient DNA / RNA extraction system – the KingFisher™ Flex.



Order No.: S 400 13 L

**foodproof® Magnetic Preparation Kit III**

- DNA extraction can be performed for testing allergens, GMOs and animal species
- For automated high-throughput testing
- Validated extraction protocols for the Thermo Scientific KingFisher™ Flex

For more information about our real-time-RT-PCR detection kits, please contact:

[Erik Franzke](#)

**AVAILABLE:  
Now**

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**Table 2. Overview allergen monitoring kits and reference material**

Immunolab® ELISA kits	
Tree nuts	Hazelnut, Almond, Brazil Nut, Cashew, Macadamia, Pecan Nut, Pistachio, Walnut, Coconut
Legumes	Lupine, Peanut, Soya
Milk	Milk, Casein, Beta-Lactoglobulin
Seafood	Crustaceans, Molluscs, Fish (Parvalbumin)
Egg	Egg white, Lysozym, Ovalbumin
Spices and others	Mustard, Sesame, Gliadin/Gluten
PCR foodproof® kits	
Tree nuts	Hazelnut, Peanut, Walnut
Others	Soya, Gluten
Reference material	
Allergen RM 800	Hazelnut, Peanut, Walnut, Soya, Gluten



Order No.: A 500 13

**Allergen RM 800**

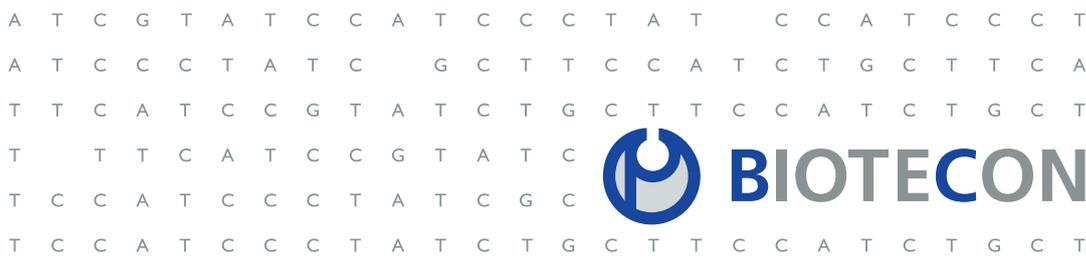
- Reference material used for the quantitative analysis of allergens
- Contains celery, soya, peanut, hazelnut, walnut and gluten (800 mg / kg)
- Extracted DNA is used to create a standard curve
- Quantification of allergenic content in the sample can be determined in combination with the **foodproof®** Allergen Detection Kits



**November 6-7, 2018 in Potsdam**

**ALLERGENS WORKSHOP**

- ▶ Short introduction of EU regulation EU 1169/2011 and related international regulations, including labelling of allergens
- ▶ Hands-on training of DNA extraction and real-time PCR in the laboratory
- ▶ Hands-on training of protein extraction and ELISA in the laboratory
- ▶ Hands-on training of spiking matrices
- ▶ Result interpretation and data analysis



## Meet the Experts: Our Workshops in 2018

In the second half of 2018, we are offering again a series of workshops as well as industry meetings. The events for 2018 are listed below.

It is a good opportunity for you and your customers to get in-depth information on food and beverage analysis and have hands-on training for our test methods.

We look forward to seeing you at one of our workshops and industry meetings!

Schedule Workshops	
Date	Topic
October 18	<b>Beverage Workshop:</b> Detection of <i>Alicyclobacillus</i> and Spoilage Yeast
October 19	<b>Legionella Workshop:</b> Quantification in 4 hours
November 6-7	<b>Allergens Workshop:</b> Detection and quantification with ELISA and real-time PCR technology
November 27	<b>Real-time PCR Workshop:</b> Introduction into the technology and hands-on experience
November 28	<b>Salmonella Workshop:</b> <i>Salmonella</i> Detection in Poultry & <i>Salmonella</i> Vaccines

**Get in contact to learn more!**

Join our

### WORKSHOPS

**TOPICS:**  
SPOILAGE  
ORGANISMS  
LEGIONELLA  
ALLERGENS  
REAL-TIME PCR  
SALMONELLA



**REGISTER ONLINE NOW!**

### General Information

WORKSHOP LANGUAGE:

English

LOCATION:

All workshops will take place in Potsdam - Hermannswerder, Germany.

### SAVE YOUR PLACE!

INDUSTRY MEETING FEE: 199 €

WORKSHOP FEE:

129 € for one day\*

299 € for two days\*\*

Includes \*one hotel overnight stay / \*\*two overnight stays at Inselhotel Hermannswerder or other hotel, workshop documents, catering, certificate of participation.

Not included: other travel costs.

Cancellation up to 7 days before beginning of the seminar will result in cancellation fees of 50 % of the full seminar fee, for later cancellation the full fee of the seminar is due without consideration.

If you and your customers are interested to participate or if you have further questions, please contact:

**Dr. Constanze Klopffleisch**



## Industry meetings - September 13 - 14

We invite you for the industry meetings „Current topics and trends of diagnostic methods” in Potsdam at BIOTECON Diagnostics. Attending this event will allow you to discuss with the expert speakers all the burning questions you have. Three meetings are supposed to improve expertise in industry-specific quality control. During the first day our company experts in Potsdam will present state-of-the-art molecular diagnostic techniques, advantages of rapid test methods and discuss the demand and opportunities of the local participant sites. And on the second day we offer hands-on training for our test methods. We look forward to seeing you at one of our workshops and industry meetings!

If you want to meet us at one of these industry meetings or need further information please contact [Dr. Constanze Klopfleisch](#).



### Dairy / Infant Meeting

Focus on detection of *Salmonella*, *Enterobacteriaceae* plus *Cronobacter*-Multiplex, *Cronobacter*, *Clostridium*, Yeasts and Molds and antibiotics.



### Confectionery Meeting

Microbiology testing solutions along the entire confectionery production chain! Focus on detection of *Salmonella* and allergens (e.g. peanut, hazelnut, pistacho).



### Meat and Poultry Meeting

Focus on detection of *Salmonella*, *Listeria*, *E. coli* incl. STEC, *Campylobacter*, *Clostridium*, allergens (e.g. gluten, soya, mustard, celery) and species identification (pork/beef/donkey).

### Impressum

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**REGISTER ONLINE NOW!**