Allergen Detection and Quantification Kits

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

People affected by foodborne allergens develop abnormal immunological reactions to specific food components. These can range from mild allergic symptoms to life-threatening anaphylactic shock. Affected patients rely on avoiding the allergenic food or ingredient based on appropriately labelled food products. EU Commission Directive 2007/68/EC defines 20 allergenic substances which must be declared if contained in food products. Even traces of allergenic components can cause dangerous reactions in sensitive individuals. Thus, sensitive detection of allergenic food components at different stages of production and critical points in the production chain is essential. Detection methods must be highly sensitive (low ppm range!) and – due to existing regulations and threshold systems – quantitative.

The foodproof® 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.

Isolation and purification of small amounts of even DNA traces is obligatory for reliable analysis. The foodproof® DNA extraction systems enable fast and effective DNA extraction from various food and raw material matrices. Available automated systems save time and work effort.

**Easy:** Convenient, complete solution including DNA extraction and real-time PCR analysis

**Fast:** 2 h to result with ≤ 60 min of hands-on time

**Licensed:** Fully licensed technology

**Quantitative**

Reliable quantification in-between allergen contents of 0.8 - 800 ppm (referring to reference material Allergen RM 800)

**Sensitivity**

Validated to detect ≥ 0.1 ppm (referring to reference material Allergen RM 800)

**Matrices**

Spices, confectionery, meat and other food matrices
Detection and Quantification Kits

- A 500 13  Allergen RM 800
- R 302 60  foodproof® Celery Detection Kit
- R 302 61  foodproof® Soya Detection Kit
- R 302 62  foodproof® Hazelnut Detection Kit
- R 302 63  foodproof® Peanut Detection Kit
- R 302 64  foodproof® Gluten Detection Kit

Sample Preparation Kits

- S 400 06.1  foodproof® Sample Preparation Kit III - high quality column purification
- S 400 13  foodproof® Magnetic Preparation Kit III, 96 isolations - automated purification
- S 400 13.1 L  foodproof® Magnetic Preparation Kit III, 480 isolations - automated purification

DNA Extraction (approx. 30 min)
- The sample preparation kits enable the (automated) DNA extraction of allergenic components even from difficult food samples

Sample Homogenization  Start  DNA Extraction  approx. 30 min  PCR Setup  approx. 10 min  Real-time PCR Run  approx. 90 min
Analysis Results in 2.5 h

Storage at -15 °C to -25 °C
96 Reactions with a final volume of 25 µl

Instrument Compatibility
- LightCycler®
- 5'Nuclease / TaqMan® cycler (e.g. CFX96, Mx3005P, ABI 7500)

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