



foodproof®

Allergen Detection and Quantification Kits

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 trace DNA 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 results with ≤ 60 min of hands-on time.

Quantitative

Reliable quantification in between allergen contents of 0.8 - 800 ppm.

Sensitivity

Validated to detect ≥ 0.1 ppm (1 ppm for peanut and hazelnut).

Matrices

Spices, confectionery, meat and many other food matrices.

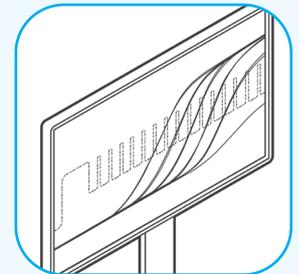
Workflow



Sample Homogenization
Start



DNA Extraction
approx. 30 min



Real-Time PCR
approx. 90 min

DNA Extraction Kits

Manual

foodproof Sample Preparation Kit III
KIT 2301 74

Automated

foodproof Magnetic Preparation Kit III
KIT 2301 82

Tests

50

480

DNA Extraction (approx. 30 min)

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

Real-Time PCR Kits

Allergen RM 800 (reference material for quantification, 2 g)
KIT 2300 08

foodproof Celery Detection Kit
KIT 2300 57

foodproof Soya Detection Kit
KIT 2300 58

foodproof Hazelnut Detection Kit
KIT 2300 59

foodproof Peanut Detection Kit
KIT 2300 60

foodproof Gluten Detection Kit
KIT 2300 61

Tests

64

64

64

64

64

Instrument Compatibility

LightCycler® 96,
LightCycler® 480 II,
5'Nuclease/TaqMan® cycler
(e.g., CFX96, AriaMx ABI 7500)

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