

A T C A T C G T A T C C A T C C C T A T C C A T C C C T  
T C A T C C C T A T C G C T T C C A T C T G C T T C A  
A T C T T C A T C C G T A T C T G C T T C C A T C T G C T  
C C A T T T C A T C C G T A T C  
G C T T C C A T C C C T A T C G C  
T C A T C C A T C C C T A T C T G C T T C C A T C T G C T



**BIOTECON** Diagnostics

**foodproof®**



**GMO Detection Kits**

**Hydrolysis Probes**

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

Many countries worldwide have implemented legislations for the use, cultivation and labelling of foodstuffs containing genetically modified organisms (GMO). These regulations allow usage of GMO under certain conditions, often including a defined threshold for labelling, or the import and use of GMOs is prohibited. Thus, reliable methods for the detection, identification and quantification of GMOs in food and feed are required. With the foodproof® GMO product line, BIOTECON Diagnostics offers a wide range of easy and reliable assays for the detection and quantification of GMO.

The **foodproof® SL GMO Detection Kits** facilitate a fast, safe and easy qualitative detection of GM ingredients in food and feed, based on real-time PCR technology.

**Safe:** Prevention of false-negative results by internal control and prevention of carry-over contamination using Uracil-N-Glycosylase

**Fast:** < 3 h to result with ≤ 60 min hands-on time

**Easy:** Convenient real-time PCR kit including gene-specific primer and probe, reagent and control

**Flexible:** Single GMO event or multiplex detection



### Specificity

100% exclusivity for non-target DNAs

### Sensitivity

Limit of detection: 0,1% of targeted GMO

### Matrices

All plant-containing matrices (food, feed and raw materials)

### Instrument Compatibility

The foodproof® SL 5'Nuclease kits are available for qPCR platforms using TaqMan® technology

A T C A T C G T A T C C A T C C C T A T C C A T C C C T  
 T C A T C C C T A T C G C T T C C A T C T G C T T C A  
 A T C T T C A T C C G T A T C T G C T T C C A T C T G C T  
 C C A T T T C A T C C G T A T C  
 G C T T C C A T C C C T A T C G C  
 T C A T C C A T C C C T A T C T G C T T C C A T C T G C T



**BIOTECON** Diagnostics

## Workflow



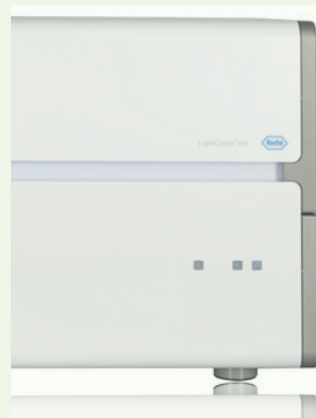
**Start**  
Sample Homogenization



**DNA Extraction**  
approx. 40 min



**PCR Setup**  
approx. 10 min



**Real-time PCR Run**  
approx. 100 min

Analysis Results in 2,5 h

### foodproof® SL GMO Identification Kits

- Z 720 01 foodproof® SL GMO Bt11 Maize Detection Kit
- Z 720 02 foodproof® SL GMO GA21 Maize Detection Kit
- Z 720 03 foodproof® SL GMO MON810 Maize Detection Kit
- Z 720 04 foodproof® SL GMO T25 Maize Detection Kit
- Z 720 05 foodproof® SL GMO MIR162 Maize Detection Kit
- Z 720 06 foodproof® SL GMO MIR604 Maize Detection Kit
- Z 720 07 foodproof® SL GMO MON88017 Maize Detection Kit
- Z 720 08 foodproof® SL GMO MON89034 Maize Detection Kit
- Z 720 09 foodproof® SL GMO NK603 Maize Detection Kit
- Z 720 10 foodproof® SL GMO TC1507 Maize Detection Kit
- Z 720 11 foodproof® SL GMO DAS 59112-7 Maize Detection Kit
- Z 720 12 foodproof® SL GMO MON863 Maize Detection Kit
- Z 722 01 foodproof® SL GMO A2704-12 Soya Detection Kit
- Z 722 02 foodproof® SL GMO GTS40-3-2 Soya Detection Kit

### foodproof® SL GMO Multiplex Detection Kits

- Z 725 01 foodproof® SL GMO Maize Multiplex Detection Kit (GA21, MIR604)
- Z 725 02 foodproof® SL GMO Maize Multiplex Detection Kit (MON89034, CBH351, BT176)
- Z 725 03 foodproof® SL GMO Maize Multiplex Detection Kit (MON88017, NK603, MIR162)
- Z 725 06 foodproof® SL GMO Maize Multiplex Detection Kit (BT11, TC1507)
- Z 725 07 foodproof® SL GMO Maize Multiplex Detection Kit (T25, MON810, MON863)

#### DNA Extraction

##### foodproof® Sample Preparation Kit III

- Enables the extraction of plant and animal DNA from food and feed

##### foodproof® Magnetic Preparation Kit III

- High-throughput automated DNA extraction

#### Storage

- at -15 °C to -25 °C

#### 50 Reactions

- with a final volume of 25 µl

### BIOTECON Diagnostics GmbH

Hermannswerder 17  
14473 Potsdam  
Germany

Phone: +49 (0)331-2300-200  
Fax: +49 (0)331-2300-299

bcd@bc-diagnostics.com  
www.bc-diagnostics.com