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

In Regulation (EC) 2073/2005, the European Commission states that Salmonella and Cronobacter (Enterobacter sakazakii) are the microorganisms of greatest concern in infant formula, formula for special medical purposes and follow-on formula. The lethality rate caused by neonatal Cronobacter infections is between 40-80%. Enterobacteriaceae, which are more often present, may be used as a risk indicator.

The foodproof® Enterobacteriaceae plus Cronobacter Detection Kit is based on the real-time PCR technology, which is well-established in the food industry. The kit enables the detection of Enterobacteriaceae and identification of Cronobacter in one single assay.

Save time and cost: negative for Enterobacteriaceae means negative for Salmonella, too!

**Fast:** 24 h to result with < 40 min of hands-on time (except probiotics)

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

**Sensitive:** Validated to detect 1-10 cfu/10 g or 100 g sample, including enrichment

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

**Experienced:** Manufacturer of PCR-based rapid tests for the food industry since 1998 with an ISO 17025 accredited service lab

**Licensed:** Fully licensed technology

**Best Specificity**

- **100% Inclusivity**
  - A total of 160 Cronobacter spp. strains and 61 Enterobacteriaceae strains tested

- **100% Exclusivity**
  - 122 strains tested:
    - 61 non-Cronobacter Enterobacteriaceae
    - 61 non-Enterobacteriaceae including closely related organisms and microorganisms of the same habitat

**Matrices**

- Infant formula, follow-on formula, pre-blends, probiotic food, vitamin powder, cocoa, corn starch, environmental samples

**Approvals**

- Microval
**Workflow**

**Start**
- Enrichment

**DNA Extraction**
- approx. 30 min

**PCR Setup**
- approx. 10 min

**Real-time PCR Run**
- 60 - 100 min

**Analysis Results in < 2.5 h**

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**Enterobacteriaceae plus Cronobacter Detection Kits**

R 302 15.1  
foodproof® Enterobacteriaceae plus Cronobacter Detection Kit (5' Nuclease)

R 310 15.1  
foodproof® Enterobacteriaceae plus Cronobacter Detection Kit (LC 1.x, 2.0, 480)

**Specific DNA Extraction Kits**

S 400 07  
foodproof® StarPrep One Kit, 100 isolations - bulk purification

S 400 07 L  
foodproof® StarPrep One Kit, 500 isolations - bulk purification

S 400 15  
foodproof® Magnetic Preparation Kit IV, 96 isolations - automated purification

S 400 15 L  
foodproof® Magnetic Preparation Kit IV, 480 isolations - automated purification

A 500 02  
Reagent D, removes DNA from dead cells during extraction

**DNA Extraction**

foodproof® StarPrep One Kit, Magnetic Preparation Kit IV enables the extraction of Enterobacteriaceae and Cronobacter DNA from food matrix enrichments.

**Instrument Compatibility**

- LightCycler 480, LC 96
- 5'Nuclease / TaqMan® cycler (e.g. PikoReal 24, AriaMx, CFX96, ABI 7500)

**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

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*foodproof® is a registered trademark of BIOTECON Diagnostics. The above mentioned real-time PCR instruments are registered trademarks of their respective holders.*