

Supplied by:

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BioSystems**



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



**BIOTEC CON** **Diagnostics**

**foodproof®**



## *Enterobacteriaceae* + *Cronobacter* Detection Kits

### Hybridization and Hydrolysis Probes

### For safer food – BIOTEC CON 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**  
European validation and certification organisation



## Workflow



**Start**  
Enrichment



## DNA Extraction

approx. 30 min

**PCR Setup**  
approx. 10 min



## Real-time PCR Run

## Analysis Results in < 2,5 h

## 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



**Storage** at -15 °C to -25 °C

**96 Reactions** with a final volume of 20 or 25  $\mu$ l

## 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)

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