

Supplied by:



Tel: +44(0)1235 431390

sales@oxfordbiosystems.com

www.oxfordbiosystems.com

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
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BIOTEC CON Diagnostics

foodproof®

Cronobacter Detection LyoKit

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* 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 %.

The **foodproof®** *Cronobacter* Detection LyoKit is based on the real-time PCR technology, which is well-established in the food industry. The kit enables the detection of all species of genus *Cronobacter*. It uses the same primer and probes for *Cronobacter* detection as the according to ISO 16140 MicroVal validated **foodproof®** *Enterobacteriaceae* plus *Cronobacter* Detection Kit (order number: R 302 15.1).

Fast: 24 h to result with < 40 min of hands-on time

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 50 *Cronobacter* spp. strains tested

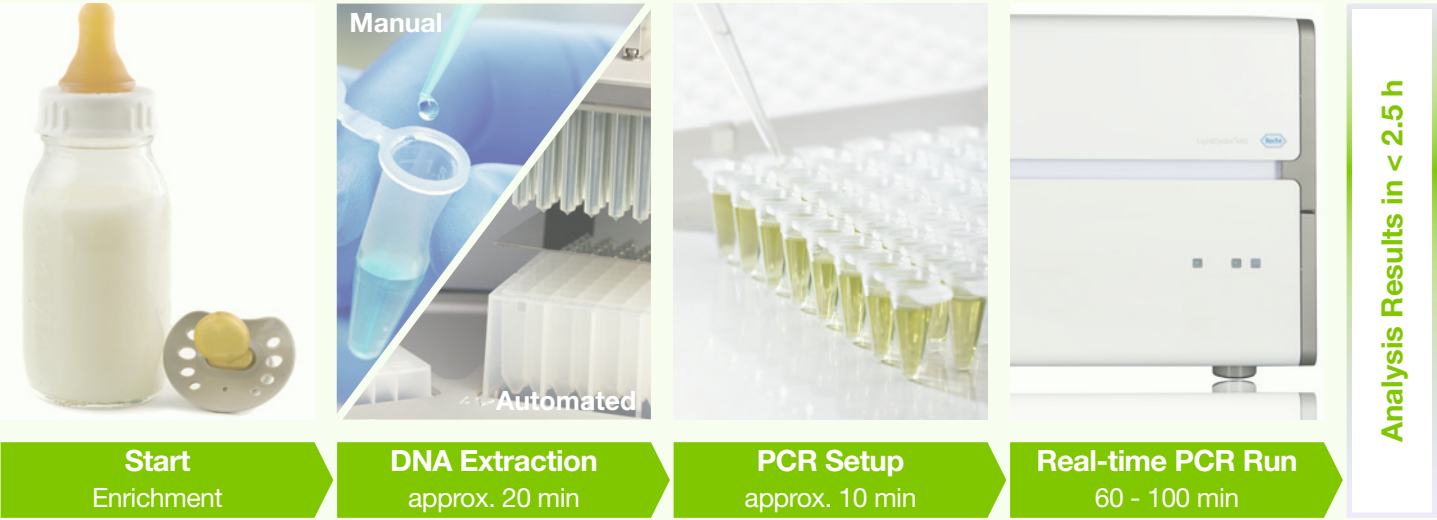
100 % Exclusivity

A total of 50 non-*Cronobacter* *Enterobacteriaceae* strains tested

Matrices

All relevant matrices, e.g.: infant formula with and without probiotics, pre-blends, vitamin powder, skim milk powder, human milk fortifier, sucrose and environmental samples

Workflow



Cronobacter Detection Kits

- R 602 13-1 **foodproof®** Cronobacter Detection LyoKit (low profile)
- R 602 13-2 **foodproof®** Cronobacter Detection LyoKit (regular profile)

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 (optional)

DNA Extraction

StarPrep One Kit, Magnetic Preparation Kit IV enables the extraction of Cronobacter DNA from food matrix enrichments

Instrument Compatibility

LightCycler 480, LightCycler 96, PikoReal 24, AriaMx, Mx3005P CFX96, ABI 7500, etc.

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



Storage at 2 °C to 8 °C
96 Reactions with a final volume of 25 µl

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