



foodproof®

Enterobacteriaceae and Cronobacter Detection Kits

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 to 80%. *Enterobacteriaceae*, which are more often present, may be used as a risk indicator.

The **foodproof Enterobacteriaceae plus Cronobacter Detection Kit** is based on 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.

As an added bonus, a negative result for *Enterobacteriaceae* means there is no *Salmonella* present either.

Fast: 24 h to results with < 40 min of hands-on time (except when testing probiotics).

Sensitive: Validated to detect 1 to 10 cfu per 10 g or 100 g sample, including enrichment.

Cost and Time Saving: Negative *Enterobacteriaceae* result means a negative result for *Salmonella*.

Easy: Convenient, complete solution including DNA extraction and real-time PCR analysis. Validated automated extraction method available.

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

Best Specificity

100% Inclusivity

A total of 160 *Cronobacter* spp. strains and 61 *Enterobacteriaceae* strains tested.

100% Exclusivity

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.

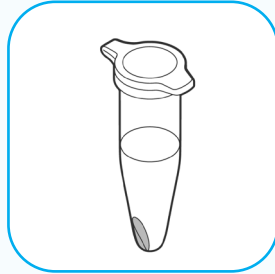
Approvals

MICROVAL® 
NEN

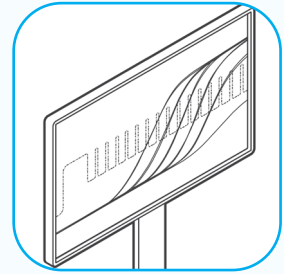
Workflow



Enrichment
18 ± 2 h



DNA Extraction
Duration depending on protocol
and number of samples



Real-Time PCR
100 min

DNA Extraction Kits

Manual

foodproof StarPrep One Kit
KIT 2301 75 / KIT 2301 76

Reagent D
KIT 2300 01

Automated

foodproof Magnetic Preparation Kit IV
KIT 2301 84

Real-Time PCR Kits

foodproof *Enterobacteriaceae* plus *Cronobacter* Detection Kit
KIT 2300 43

foodproof *Enterobacteriaceae* plus *Cronobacter* Detection Kit
(Hybridization Probes)
KIT 2300 68, KIT 2300 69

foodproof *Salmonella* plus *Cronobacter* Detection LyoKit
KIT 2301 31 (LP), KIT 2301 32 (RP), KIT 2301 33 (DP)

foodproof *Cronobacter* Detection LyoKit
KIT 2300 81 (LP), KIT 2300 82 (RP), KIT 2300 83 (DP)

Tests

100 / 500

100 (30 mL)

480

Tests

96

96 / 480

96

96

LyoKits

Fast & Convenient

Lyophilized, prefilled reaction mix reduces hands-on time and minimizes contamination risks.

Easy Storage & Safe Transportation

Ships at room temperature, store at 2 °C to 8 °C.

Instrument Compatibility

Different Profile (DP):

e.g., Dualo 32® R²

Low Profile (LP):

e.g., LightCycler® 480, LightCycler® 96, AriaMx, Bio-Rad CFX96™, Applied Biosystems™ 7500 Fast, QuantStudio™

Regular Profile (RP):

e.g., Mx3005P

Other cyclers on request.

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