



## foodproof®

# Salmonella plus Cronobacter Detection LyoKit

Globally, *Salmonella* and *Cronobacter* are widely recognized as high-risk microorganisms in infant formula and nutritional drinks designed for special medical purposes. Because these food products are intended for vulnerable populations, accurate detection of these microorganisms is crucial.

The **foodproof® Salmonella plus Cronobacter Detection LyoKit** is based on real-time PCR technology, which is a well-established rapid method utilized in the food industry for the detection of pathogens. The kit enables fast and highly sensitive detection of *Salmonella* spp. and *Cronobacter* spp. in a single assay designed for testing raw ingredients, powder infant formula and environmental samples. It also contains an internal positive control for reliable interpretation of the results, even in the absence of the target(s).

### Reduce Time & Cost With A More Efficient Assay

- Multiplex assay provides two results from one reaction – dual detection of *Salmonella* and *Cronobacter*
- Utilizes the same enrichment and simplified DNA extraction protocols to maximize ease of use and reduce costs
- Clear yes-or-no results in as little as 19 hours – saving days compared to traditional culture methods

### Trust The Accuracy Of The Results

- 100% inclusivity of 100 *Salmonella* strains and 50 *Cronobacter* strains tested
- 100% exclusivity of 30 non-target strains tested
- Reproducibility confirmed by consistent results across multiple laboratories in collaborative studies
- Lyophilized PCR reagents eliminate the need for liquid handling and multiple pipetting steps, significantly reducing the risk of cross-contamination

## Validation

Holds **AFNOR certification (ISO)** - QUA 18/12-12/24 and QUA 18/13-12/24 for infant formula with or without probiotics and related ingredients (up to 375 g test portion size) and environmental production samples



QUA 18/12-12/24, QUA 18/13-12/24  
Alternative Analytical Methods for Agribusiness  
<http://nf-validation.afnor.org/en>

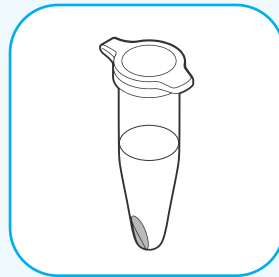
Product No.	Description	Test Per Kit	Instrument Compatibility
KIT230131	foodproof <i>Salmonella</i> plus <i>Cronobacter</i> Detection LyoKit (LP)	96	BAX® System Q7 LightCycler® 480

## Workflow



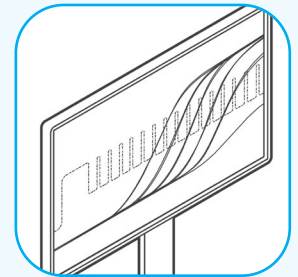
### Enrichment

16 – 24 h  
37 °C ± 1 °C



### DNA Extraction

Duration depends  
on protocol



### Real-Time PCR

approx. 100 min

## DNA Extraction Kits

The foodproof *Salmonella* plus *Cronobacter* Detection LyoKit is compatible with various extraction methods to offer flexibility. Select an extraction kit that suits your laboratory's needs:

Product No.	Description	Test Per Kit
KIT2047	BAX Prep Lysis Kit	96
KIT230187	foodproof StarPrep® Three Kit (Standard)	96
KIT230188	foodproof StarPrep® Three 8-Strip Kit (High-Throughput)	480

## Related Products

Hygiena® offers other products – including sample collection devices, enrichment media, and other relevant assays – to enable pathogen detection in environmental samples and final products.

Product No.	Description	Quantity
SS100BPWP	Stick Sponge™ pre-moistened with 10 mL Buffered Peptone Water	100
SS100NBP	Stick Sponge™ pre-moistened with 10 mL Neutralizing Buffer	100
MS1-EB	MicroSnap® EB Enrichment Device for <i>Enterobacteriaceae</i>	100
MS2-EB	MicroSnap® EB Detection Device for <i>Enterobacteriaceae</i>	100
MED2011	Hygiena Buffered Peptone Water (BPW) – Dehydrated Media	500 g
MED2010	Hygiena Buffered Peptone Water (BPW) – Dehydrated Media	2.5 kg
MED2028	Hygiena Buffered Peptone Water (BPW) – Dehydrated Media	80 x 67.5 g packets
KIT230043	foodproof <i>Enterobacteriaceae</i> plus <i>Cronobacter</i> Detection	96 tests per kit
KIT230137	foodproof <i>Enterobacteriaceae</i> plus <i>Salmonella</i> Detection LyoKit (LP)	96 tests per kit