



foodproof[®]

***Enterobacteriaceae plus Salmonella* Detection Kits**

The European Commission's (EC) Regulation 2073/2005 states that *Salmonella* and *Cronobacter* are the microorganisms of greatest concern in infant formula and formula for special medicinal purposes. *Enterobacteriaceae*, which are most often present, should therefore be used as a risk indicator. While dry powdered follow-on formula no longer needs to be tested for *Cronobacter*, according to the EC Regulation, *Salmonella* is still not allowed to be present.

The **foodproof *Enterobacteriaceae plus Salmonella* Detection LyoKit** is based on real-time PCR technology, which is well-established in the food industry. The kit enables a fast and highly sensitive detection of *Enterobacteriaceae* and identification of *Salmonella* spp. in a single assay. It also contains a control template for reliable interpretations of the results.

Fast: 24 h to result with approx. 30 min of hands-on time.

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

Convenient: Lyophilized kit enables detection of two parameters in one assay with few pipetting steps.

Sensitivity: The kit detects as low as 10^2 - 10^3 cfu/mL of enrichment culture (depending on the sample preparation).

Specificity

100% Inclusivity

73 strains comprising the family *Enterobacteriaceae* and 38 strains of the genus *Salmonella*.

100% Exclusivity

50 non-*Enterobacteriaceae* species (e.g., closely related genera like *Aeromonas* or *Vibrio*).

Matrices

Growing-up milk (GUM), infant formula with and without probiotics, milk powder, infant cereals, environmental samples.

Approvals

MICROVAL[®] 
NEN

With support from

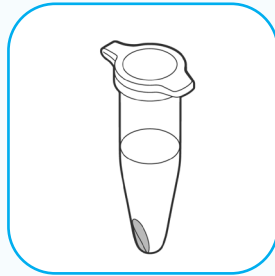


by decision of the
German Bundestag

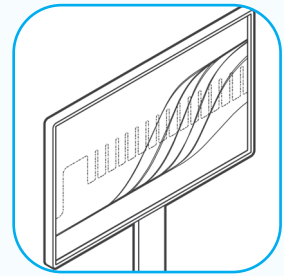
Workflow



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 Three Kit (standard)
KIT 2301 87

foodproof StarPrep One Kit (bulk purification)
KIT 2301 75, KIT 2301 76

foodproof StarPrep Three 8-Strip Kit (high-throughput)
KIT 2301 88

Reagent D
KIT 2300 01

Tests

96 (21 mL)

100 / 500

480

100 (30 mL)

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.

Real-Time PCR Kits

foodproof *Enterobacteriaceae* plus *Salmonella* Detection LyoKit
KIT 2301 37 (LP), KIT 2301 38 (RP), KIT 2301 39 (DP)

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

