



foodproof® Salmonella Detection Kits

The genus *Salmonella*, a member of the *Enterobacteriaceae* family, is comprised of the two species, *S. enterica* and *S. bongori*. The genus is subdivided into more than 2,500 serovars, and most, if not all, of these serovars are considered pathogenic to animals and humans. *Salmonella* is transmitted by eating contaminated food, such as beef, poultry, milk, eggs or fruits and vegetables.

The **foodproof Salmonella Detection Kits** for the detection of *Salmonella* spp. are based on real-time PCR technology, which is well-established in the food industry as a highly sensitive and specific detection method.

The **foodproof Salmonella Enteritidis & Typhimurium Detection LyoKit** enables the identification of both serotypes in one single assay.

The **foodproof Salmonella Genus plus SE & STM Detection LyoKit** is intended for colony identification or rapid detection of *Salmonella* spp. and identification of *Salmonella* Enteritidis (SE) and *Salmonella* Typhimurium (STM) isolated from enrichment cultures.

Cost and Time-Saving: 12 to 24 h to results with less than 30 min hands-on time. Approved 8 h short enrichment for meat. Proven DNA extraction for manual and automated high throughput.

Robust: Suitable for all kinds of food and feed matrices, including PPS.

Safe: Contains all controls. Includes enzymes to prevent carry-over contamination.

Specific: Detects all *Salmonella* species and serotypes.

Sensitive: Detects lowest amounts of *Salmonella* even in the presence of a high load of other organisms. Approx. 10^3 cfu per mL can be detected in food enrichment cultures.

Convenient: Easy handling and straightforward workflow with pre-filled lyophilized real-time PCR reagents.

Best Specificity

100% Inclusivity
> 700 *Salmonella* strains tested, including representatives of all species, subspecies and serogroups.

100% Exclusivity
> 60 strains tested, including closely related organisms and microorganisms of the same habitat.

Matrices

Relevant food matrices tested and validated include spices, minced meat, confectionary, pet food, environmental and primary production samples (PPS).

Approvals



For details on the validated matrices, please refer to the respective certificate.

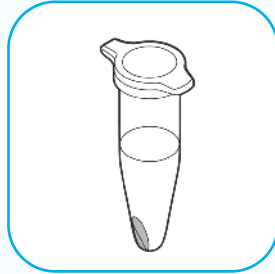


Workflow



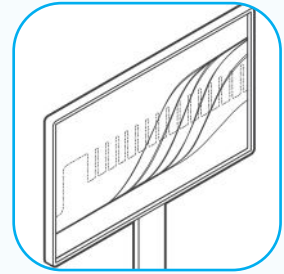
Enrichment

Standard: 18 - 20 h
Meat: 8 h



DNA Extraction

Duration depending on protocol
and number of samples



Real-Time PCR

approx. 100 min

DNA Extraction Kits

Manual

foodproof StarPrep One Kit (standard)
KIT 2301 75 / KIT 2301 76

foodproof StarPrep One 8-Strip Kit (high-throughput)
KIT 2301 83

foodproof StarPrep Three Kit (standard & high-throughput)
KIT 2301 87

Automated

foodproof Magnetic Preparation Kit I
KIT 2301 80

Real-Time PCR Kits

foodproof *Salmonella* Detection LyoKit
KIT 2300 99 (LP), KIT 2301 01 (RP), KIT 2301 02 (DP)

foodproof *Salmonella* Detection LyoKit
KIT 2301 00 (LP)

foodproof *Salmonella* Detection Kit
KIT 2300 49 / KIT 2300 50

foodproof *Salmonella* Detection Kit (Hybridization Probes)
KIT 2300 70

foodproof *Salmonella* Enteritidis & Typhimurium Detection LyoKit
KIT 2301 06 (LP), KIT 2301 07 (RP)

foodproof *Salmonella* Genus plus SE & STM Detection LyoKit
KIT 2301 34 (LP), KIT 2301 35 (RP), KIT 2301 36 (DP)

Tests

100 / 500

480

100

480

Tests

96

480

96/480

96

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

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