

## foodproof<sup>®</sup> **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<sup>3</sup> 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.

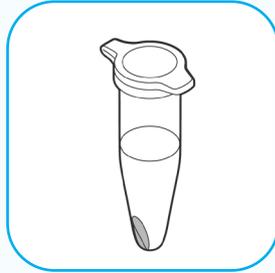


## Workflow



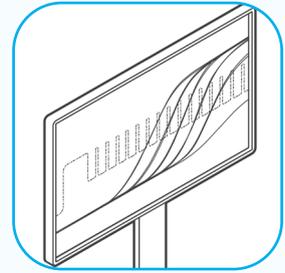
### Enrichment

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® R<sup>2</sup>

#### 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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