

Food testing

Rapid *Salmonella* detection and serotyping in poultry

Detect. Identify. Assess.



Simplicity

Simple sample preparation step provides scalability for higher-throughput.



Speed

Detect and identify *Salmonella* species, Typhimurium, Enteritidis and Infantis, with sample-to-result in under 18 hours.



Accuracy

Robust solutions with high sensitivity, specificity and reliability.

A simple solution for improved risk assessment and management of *Salmonella* in poultry production

For the detection of *Salmonella* spp. and identification of the top three serotypes in poultry products, the Thermo Scientific™ RapidFinder™ *Salmonella* species Multiplex PCR Kit and Thermo Scientific™ SureTect™ *Salmonella* Infantis PCR Assay offer a complete solution.

Every year, *Salmonella* causes up to 1 billion infections worldwide with around 155,000 deaths. In the United States, 23% of foodborne *Salmonella* illnesses are directly attributable to poultry consumption and commonly linked to three serotypes: Typhimurium, Enteritidis and Infantis.

To reduce human cases of Salmonellosis, the poultry industry and regulators are working to understand and reduce the prevalence of *Salmonella* serotypes that are of greatest public health concern in raw poultry products.

Designed specifically for *Salmonella* control programs in poultry production, the RapidFinder *Salmonella* Multiplex PCR Kit, in combination with the new SureTect *Salmonella* Infantis PCR Assay, allow for rapid and robust detection and serotyping of *Salmonella* strains of public health concern in poultry.

RapidFinder *Salmonella* Multiplex PCR Kit

- The first validated multiplex PCR assay for simultaneous detection of *Salmonella* species and *Salmonella* serovars; Typhimurium and Enteritidis
- Combined *Salmonella* species and serovar results from a single well
- Streamlines testing workflow and reduces waiting time for product release or intervention



RapidFinder *Salmonella* Multiplex PCR Kit





SureTect *Salmonella* Infantis PCR Assay

- Additional serotyping assay for the detection of *Salmonella* Infantis in poultry
- Complimentary to the RapidFinder *Salmonella* Multiplex Kit and designed to run simultaneously, requiring no additional time or data interpretation steps



SureTect *Salmonella* Infantis PCR Assay

RapidFinder *Salmonella* Multiplex PCR Kit method AOAC-PTM validated matrices

 30 mL chicken carcass rinse	 25 g fresh, raw poultry (also validated for 25 g of fresh, raw pork)	 Eggs	 375 g raw ground turkey (validated with the RapidFinder <i>Salmonella</i> Multiplex Flex Kit)
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SureTect *Salmonella* Infantis PCR Assay method verified matrices

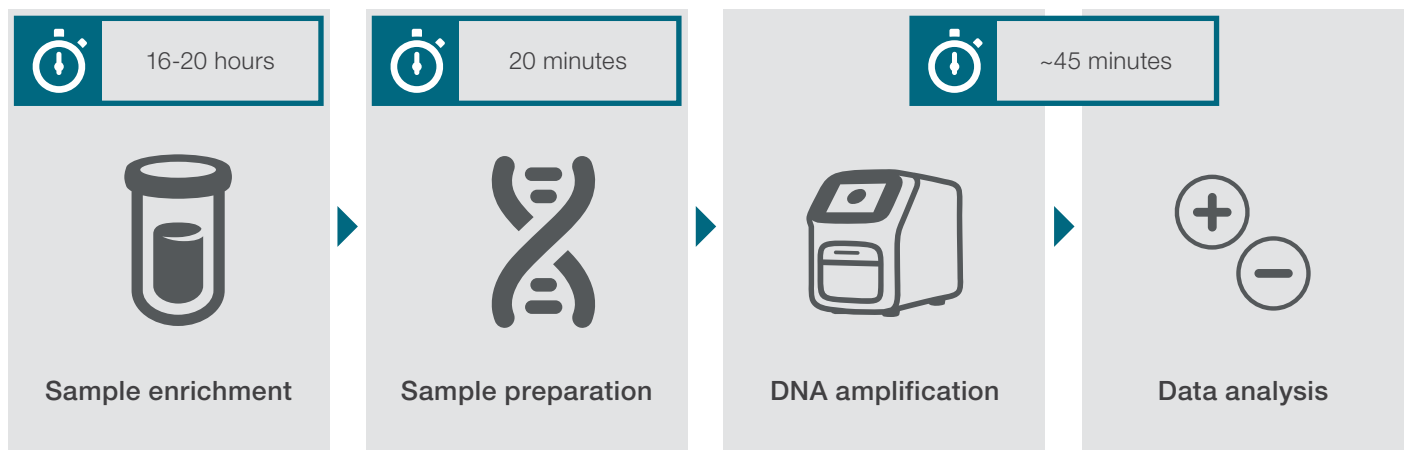
 30 mL chicken carcass rinse	 375 g Chicken parts (covers testing of 1g to 375 g)	 Re-hang rinses
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Harmonized workflow

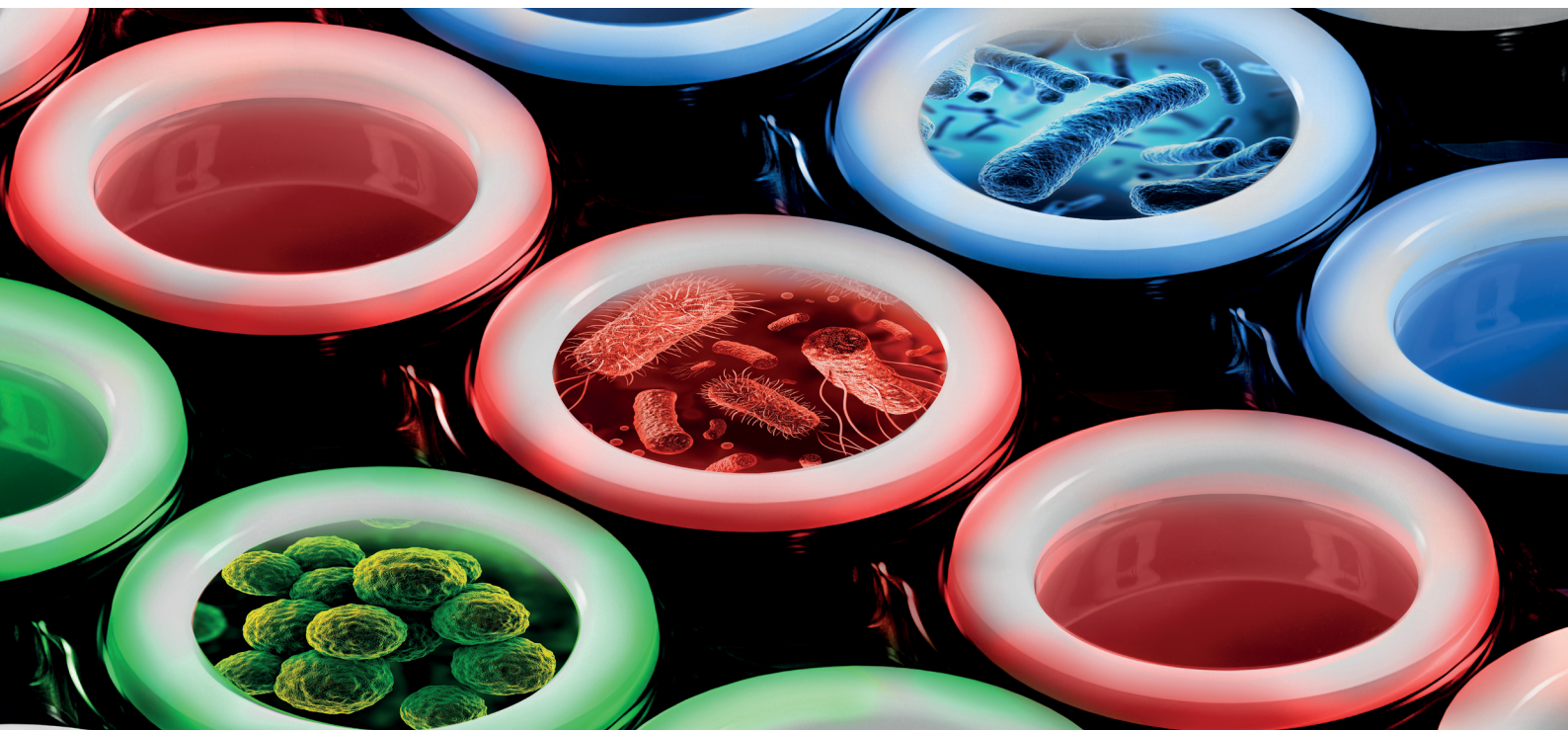
Together the RapidFinder Salmonella Multiplex Kit and SureTect Salmonella Infantis Assay offer a simple, all-in-one workflow for comprehensive *Salmonella* testing in poultry production. Detect *Salmonella* species and differentiate three serotypes from a single enrichment and just two reactions in the same PCR run to get four results in one!

- Simplified and consolidated workflow that replaces traditional *Salmonella* strain typing methods
- All-in-one workflow to get same-time, accurate result: *Salmonella* spp. and the top three serotypes of relevance to poultry
- Pre-dispensed, ready-to-use and lyophilized reagents
- Open PCR instrument (Applied Biosystems™ QuantStudio™ 5 Food Safety PCR System) with capacity to process a high volume of samples
- User-friendly and LIMS compatible software
- High level of service and support

From sample-to-result in under eighteen hours:



Confirmation via traditional or chromogenic media (full suite of solutions available)



Your *Salmonella* control partner

Whether you are testing in-house, or are a contract testing laboratory, our team of microbiology experts is ready to provide the technical expertise and best-in-class support that you need to power up your *Salmonella* PCR testing program.

Choice of open PCR platforms for your workflow

The RapidFinder *Salmonella* Multiplex and SureTect *Salmonella* Infantis PCR Assays are designed and validated to run on your choice of the Applied Biosystems™ QuantStudio™ 5 or Applied Biosystems™ 7500 Fast Food Safety PCR Systems.

SimpliAmp Thermal Cycler

Utilize the Applied Biosystems™ SimpliAmp™ Thermal Cycler to automatically prepare lysates from enriched samples ready for PCR.

By automating the incubation steps for cell lysis, samples are ready for PCR in less than 20 minutes with minimal hands-on steps required.



QuantStudio 5 Food Safety Real-Time PCR System

The RapidFinder and SureTect PCR Assays are validated to run on the QuantStudio 5 Food Safety Real-Time PCR System.

The QuantStudio 5 Food Safety PCR System is a high-performance benchtop platform, combining ease-of-use and system connectivity with powerful options that enable maximum data utility and control.



Ordering information

Description	Order code
Thermo Scientific RapidFinder <i>Salmonella</i> species, Typhimurium and Enteritidis Multiplex PCR Kit	A56846
Thermo Scientific RapidFinder <i>Salmonella</i> species, Typhimurium and Enteritidis Multiplex Flex PCR Kit	A56847
Thermo Scientific SureTect <i>Salmonella</i> Infantis PCR Assay	A56450
Thermo Scientific SureTect Workflow Starter Pack	A56898
Applied Biosystems QuantStudio 5 Food Safety PCR System with laptop	A36328
Applied Biosystems SimpliAmp Thermal Cycler (for automated sample lysis)	A24811

Refer to the appropriate Thermo Scientific SureTect or Thermo Scientific RapidFinder PCR Assay instructions for use (IFU) for full details. IFUs can be found by visiting thermofisher.com and entering the Assay order code into the search window.

 To find out more about the Thermo Scientific SureTect PCR System visit thermofisher.com/suretect

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