

## **New Salmonella Multiplex PCR Solution offers First Validated Assay for Simultaneous Detection of Three Salmonella Targets in One Rapid Test**

### **Real-Time PCR workflow gains AOAC-RI approval for rapid and simultaneous detection of Salmonella species, Salmonella Typhimurium and Salmonella Enteritidis**

BASINGSTOKE, England, Dec. 5, 2017 /PRNewswire/ -- Poultry and pork producers can now rapidly screen for 3 *Salmonella* targets with one rapid PCR test. The new Thermo Scientific RapidFinder Salmonella Multiplex PCR System is the first validated multiplex PCR assay for simultaneous detection of *Salmonella* species, Typhimurium and Enteritidis.

Thermo Fisher Scientific, a market leader in culture media, microbiology, molecular and mass spectrometry systems, has been awarded AOAC-RI *Performance Tested Methods*<sup>SM</sup> certification for its RapidFinder Salmonella Multiplex PCR Detection Workflow. Validated for use on the Applied Biosystems Food Safety 7500 Fast System and the Applied Biosystems Food Safety QuantStudio 5 System, the workflow features simple sample preparation and results in as few as 16 hours from raw and cooked poultry and pork as well as production environment samples.

"*Salmonella* serovars Typhimurium and Enteritidis are most commonly associated with the disease in humans. As a result there are multiple strategies and regulations targeting a reduction in the contamination level of these serovars in the poultry and pork industries," said Bernd Hofmann, vice president, global marketing, microbiology, Thermo Fisher Scientific. "Identifying the serovar of any *Salmonella* strain quickly can bring substantial economic benefits to pork and poultry producers. To be able to detect three targets in as few as 16 hours now means product may be released two or three days sooner than when using conventional tests."

Many rapid methods are available to detect all *Salmonella* species but not all are capable of providing the serovar identity of a *Salmonella* strain if detected. To get that information the laboratory must run additional rapid tests, which can prove very expensive, or use a series of conventional biochemical and serological tests that can take several days to complete.

The RapidFinder Salmonella Multiplex PCR Solution offers:

- Simple sample enrichment and PCR preparation protocols – fast & scalable for small to higher-throughput laboratories
- Multiplexed, simultaneous detection of *Salmonella* species, Typhimurium and Enteritidis facilitating one-well screening and identification for maximum efficiency
- TaqMan-based PCR probe technology for excellent sensitivity, specificity and reliability as evidenced through AOAC-RI *Performance Tested Methods*<sup>SM</sup> (PTM) studies
- Confidence in results – AOAC-RI PTM certification as part of an extensive validation program to address salmonella testing needs at all stages of the poultry and pork production process

In addition to the RapidFinder Salmonella Multiplex PCR Solution, Thermo Fisher Scientific provides real-time PCR-based workflow solutions and other methods to test for a broad range of food safety and quality indicators including other bacterial pathogens, meat species identification and GMO markers, as well as an expanding range of custom developed assays. All of our PCR solutions are designed to run on the Applied Biosystems 7500 Fast Real-Time PCR System which provides expansive molecular capability and streamlined testing processes which may reduce overall costs. Find out more by visiting [www.thermofisher.com/power-up](http://www.thermofisher.com/power-up).

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