

Thermo Scientific SureTect PCR provides rapid pathogen detection

17 May 2019 | News

Thermo Scientific SureTect PCR Assays are now validated to run on the Applied Biosystems SimpliAmp Thermal Cycler and Applied Biosystems QuantStudio 5 Food Safety System, which means a streamlined workflow that requires fewer touchpoints. Laboratories can now work more efficiently and release products quickly and confidently when helping to safeguard the world's food.



Extended validation scope means more streamlined rapid pathogen testing for food-testing laboratories

Thermo Scientific SureTect PCR Assays are now validated to run on the Applied Biosystems SimpliAmp Thermal Cycler and Applied Biosystems QuantStudio 5 Food Safety System, which means a streamlined workflow that requires fewer touchpoints. Laboratories can now work more efficiently and release products quickly and confidently when helping to safeguard the world's food.

AOAC PTM and NF VALIDATION certification covers SureTect Assay workflows for the detection of *Salmonella* species, *Listeria* species, *Listeria monocytogenes*, *Escherichia coli* O157:H7 and *Cronobacter* species (NF VALIDATION certification only) in a variety of foods and production environment samples.

Heating steps for the SureTect Assay sample preparation process are now fully automated using the SimpliAmp Thermal Cycler, taking just 25 minutes to prepare sample lysates ready for PCR. The SimpliAmp touchscreen interface makes it easy to set up and save the parameters required for SureTect Assays and other applications. When needed, the required program can be recalled and ready to use in seconds.

The Applied Biosystems QuantStudio 5 Food Safety Instrument is a high-performance benchtop platform that gives users greater control of data and combines out-of-the box installation, ease-of-use and system connectivity with powerful options to enable maximum control. The 6-channel, 96-well, cloud-enabled open platform is suitable for running the full range of PCR solutions for food safety, authenticity and quality testing. Combining the QuantStudio 5 Food Safety Instrument with user-friendly Thermo Scientific RapidFinder Analysis software makes SureTect test set-up, running and automatic result interpretation simple and helps avoid errors and subjective result determination.

Validation studies to certify the SureTect Assays with the new instrumentation will match the current scope of AOAC-RI and NF VALIDATION certified workflows with the Applied Biosystems 7500 Fast Food Safety System covering an extensive range of food and production environment sample types.

In addition, a 375 g milk powders and ingredients category will be added to the SureTect Salmonella species Assay range of NF VALIDATION claims as well as adding the fruits and vegetables category to the SureTect E coli O157:H7 Assay claims.