food safety

SureTect Assay Workflow Quick Reference Guide

This Quick Reference Guide is intended as an overview of the Thermo Scientific™ SureTect™ Assay workflow only. Please refer to the full User Guides for each assay when setting up tests for the first time, troubleshooting or for training purposes. User Guides can be downloaded at **www.thermofisher.com/suretect-ifu**.

Day 1

Enrich samples

Enrich samples according to the relevant protocol for the matrix and sample size in the full SureTect Assay User Guide.

Retain sufficient enriched sample for confirmation or repeat testing. Proceed directly to prepare the lysate, or store the retained enrichment sample at 2–8°C for a maximum of 72 hours.

Day 2

Prepare PCR instrument

Switch on the Thermo Scientific™ QuantStudio 5 Food Safety Instrument and prepare the plate set-up using the Thermo Scientific™ RapidFinder™ Analysis Software.

Prepare samples

To each SureTect Lysis Tube add:

- 10 µL Proteinase K
- 10 µL Lysis Reagent 2 (SureTect Listeria Assays only)
- 10 µL enriched sample or negative control to the bottom of the Lysis Tube

Seal the Lysis Tubes with the capping tool.

Incubate the Lysis Tubes in the Applied Biosystems™ SimpliAmp™ Thermal Cycler according to the pre-programmed method.

Rehydrate SureTect PCR pellets:

- Press the SureTect PCR Tubes into the MicroAmp™ 96-Well Tray for the VeriFlex™ Block according to the plate set-up in the RapidFinder Analysis software
- Tap the tray of PCR Tubes on the bench to ensure the SureTect PCR pellets locate to bottom of the PCR Tubes
- Open one strip at a time by removing the seal from the PCR Tube
- Uncap the correlating Lysis Tubes using the de-capping tool
- Transfer 20 µL of lysate or negative control (lysed enrichment broth) to the bottom of the appropriate PCR Tube
- Tap the tubes and tray on the lab bench to ensure the liquid is in touch with the pellet
- Open the next PCR strip and continue from above until all sample lystaes are processed
- Seal the PCR Tubes using the flat optical PCR cap strips provided
- Mix thoroughly for 10-15 seconds (vortex) to ensure complete rehydration of the SureTect PCR pellets and that the liquid is at the bottom of the PCR Tubes

Load instrument and run PCR

- Use the MicroAmp Tray to transfer the PCR Tubes to the QuantStudio 5 Food Safety Instrument
- Ensure the Tray is loaded in the same orientation as the plate set-up in the RapidFinder Analysis Software
- Close the instrument drawer
- In the RapidFinder Analysis Software click 'Start Run'
- At the end of the run follow the software prompts for data analysis

Review results

Confirm positive results according to the relevant protocol in the User Guide.

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