

# Innovating your Pathogen Detection System

In your pursuit of food safety, every test matters. There's no time to start again or wonder if the products you use will set you back or propel you forward.

With our comprehensive portfolio of assays combined with world-class instrumentation, you can perform food safety tests confidently knowing exactly what you are getting—quality combined with simplicity.

We are committed to enabling you to experience true confidence in your results. The innovative Thermo Scientific™ SureTect™ Food Pathogen Detection PCR System has evolved to even better support your laboratory and your testing needs.

Take advantage of simple, streamlined, automatable workflows that utilize a single same-day or overnight enrichment step, common direct lysis protocol for DNA release, and universal cycling parameters.

l earn more at thermofisher.com/suretect

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# Thermo Scientific SureTect PCR System

#### It's better to be sure

Experience complete confidence, with the tools to help you attain food pathogen detection results that are right first-time, every time.

Transform your complete food safety testing workflow with the SureTect PCR System, enabling you to work efficiently and release products quickly with a simple, rapid pathogen detection system validated for a broad range of matrices.

With the SureTect PCR System, you will move forward confidently knowing you are helping protect consumers, your brand, and your bottom-line with a food pathogen testing system that delivers speed, accuracy, and reliability of results.

#### Streamlined, automatable and rapid workflows

The simplicity of the SureTect PCR System sample preparation has now been enhanced so that up to 96-well runs can be prepared with just a few simple steps, enabling time savings compared to other manual and automated sample preparation systems.

- Single, versus dual enrichment protocols for faster time-to-result and streamlined workflow
- Test for multiple targets from a single enrichment for maximum productivity
- Universal PCR conditions for detecting multiple targets in the same run
- 'Plug and play' ready-to-use instruments out of the box
- Fully automated amplification, detection, data collection and data analysis using Thermo Scientific<sup>™</sup> RapidFinder<sup>™</sup> Analysis Software v3.0 or later

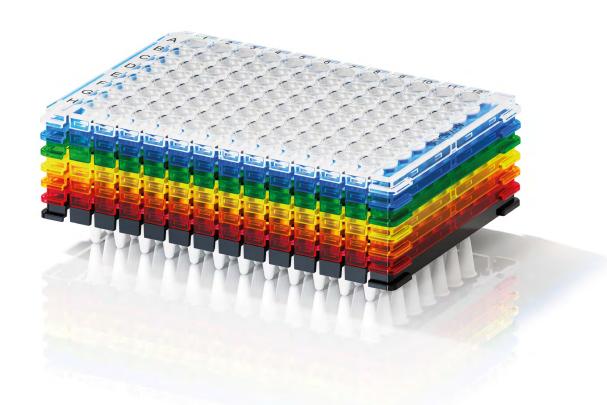
### SureTect PCR Workflow



# Thermo Scientific SureTect PCR Assays

Validated for a broad range of targets and matrices according to the certification requirements of AOAC and ISO 16140-2:2016 (by AFNOR or MicroVal). The SureTect PCR Assays provide the ultimate solution for all your pathogen detection requirements.

- Pre-dispensed lysis and PCR reagents, reducing handling steps and risk of operational error
- Clearly oriented lysis and assay plates reducing human error
- Color indicator in Proteinase K Reagent enabling tracking of pipetted wells
- Pierceable Seals for Lysis Tubes to reduce handling steps and cross-contamination
- Assay Strip Plates color-coded to target pathogens
- Thin-walled polypropylene wells ensure superior thermal cycling performance for consistent results run after run
- Internal positive control (IPC) in every well providing confidence in each and every result
- All assays compatible with manual and automated sample preparation workflows





Everything needed to simplify your workflow and help you achieve reliable pathogen test results

### Flexibility for efficient laboratory working

- Universal PCR conditions enable multiple target detection in the same run
- Easily and safely broken into 8-tube strips by hand and easy splitting of strips with the Thermo Scientific<sup>™</sup> PCR Strip Cutting Tool for maximum flexibility and convenience

#### Easily and safely divided into 8-tube strips

Use only the number of Assay Tubes needed for each PCR run

#### Easy visual organization

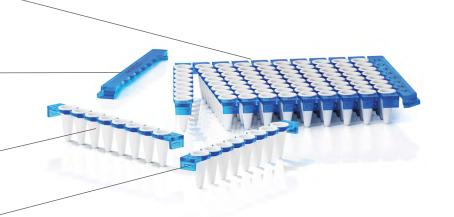
Target-specific colored Assay Plates and orientation markings

#### No warping, even after thermal cycling

Hard shell for mechanical stability and flatness

#### Snug fit to thermal blocks

Thin-wall polypropylene for excellent mechanical fit and heat transfer



### Did you know?

Proper plate sealing helps reduce evaporation and well-to-well contamination.

- Remove the backing of the Thermo Scientific<sup>™</sup> 96-well Pierceable Seal
- 2. Align the adhesive Pierceable Seal film to cover all wells
- 3. Rub the flat edge of the Thermo Scientific™ MicroAmp™ Adhesive Film Applicator along the long edge (length) of the plate, then along the short edge (width)



# SureTect PCR Assays

Each SureTect PCR Assay contains all of the ready-to-use reagents and consumables for your food SureTect PCR Assay workflows: 96-well Lysis Tube Strip Plate pre-filled with Lysis Reagent 1, Blue-tinted Proteinase K Reagent, Pierceable Lysis Tube plate sealing films, 96-well PCR Tube Strip Plate pre-filled with Lyophilized PCR components and optical PCR cap strips.



| rdering informati | on   |   |                  |
|-------------------|--|---|------------------|
|                   | Product  | Description   | Cat. No          |
|                   | Thermo Scientific™ SureTect™<br>Campylobacter jejuni, C. coli and<br>C. lari PCR Assay   | Rapidly detect <i>Campylobacter jejuni, C. coli</i> and <i>C. lari</i> in food and environmental samples with the SureTect <i>Campylobacter</i> PCR Assay. Reliably detect and differentiate <i>Campylobacter</i> from poultry samples, without using gas jars, within 24 hours. AOAC-RI validated on poultry products, with a range of test portion sizes.   | A56835           |
|                   | Thermo Scientific™ SureTect™<br>Cronobacter species PCR assay  | Simply and accurately detect <i>Cronobacter</i> species in low and high sample sizes of powdered infant formula, with and without probiotics, and ingredients in less than 20 hours. ISO 16140-2:2016 validated on infant formula and cereals with and without probiotics, related ingredients and production environment samples.  | A56845           |
|                   | Thermo Scientific™ SureTect™<br>Escherichia coli O157:H7 PCR<br>Assay  | Detect <i>E. coli</i> O157:H7 rapidly with the highly-specific, real-time SureTect E. coli O157:H7 PCR Assay. Validated on beef meats, fruits and vegetables including large test portion sizes following the AOAC-RI and the ISO 16140-2:2016* technical rules.  | A56844           |
|                   | Thermo Scientific™ SureTect™ Escherichia coli O157:H7 and STEC Screening PCR Assay  Thermo Scientific™ SureTect™ Escherichia coli STEC | Rapidly detect multiple genetic targets for Shiga-toxin producing <i>Escherichia coli</i> O157:H7 and other STEC in food and environmental samples. Part of a complete workflow for the rapid detection of <i>Escherichia coli</i> O157:H7, <i>stx, eae</i> , and the <i>Escherichia coli</i> STEC serotypes (O26, O45, O103, O111, O121, O145) from food samples within as little as 10 hours. Samples assessed as positive using the SureTect E. coli O157:H7 | A56838<br>A56840 |
|                   | Identification PCR Assay   | and STEC Screening PCR Assay are further tested using the SureTect E. coli Identification PCR Assay. AOAC-RI and ISO 16140-2:2016 validated on a range of food matrices including raw meat (excluding poultry), vegetables, fruits, juices, and dairy samples.  |                  |
|                   | Thermo Scientific™ SureTect™<br>Listeria monocytogenes PCR<br>Assay  | Detect <i>Listeria monocytogenes or all Listeria species</i> in even the most challenging food types with the SureTect <i>L. mono</i> or SureTect <i>Listeria</i> species PCR Assays which incorporates optimized primer and probe components for highly-specific detection of <i>L. monocytogenes</i> . The Assays are AOAC RI, AOAC-OMA and ISO 16140-  | A56843           |
|                   | Thermo Scientific™ SureTect™<br>Listeria species PCR Assay   | 2:2016* validated for a broad range of foods and environmental samples for additional confidence in your results.   | A56842           |

## SureTect PCR Assays

|  | Product  | Description   | Cat. No          |
|--|--|---|------------------|
|  | Thermo Scientific™ SureTect™<br>Salmonella species PCR Assay   | Detect <i>Salmonella</i> species in food and environmental samples with the SureTect Salmonella species PCR Assay which incorporates optimized primer and probe components for highly-specific detection of <i>Salmonella</i> species. The assay has been AOAC-RI, AOAC-OMA and ISO 16140-2:2016* validated for a broad range of foods and petfood including large test portions.   | A56841           |
|  | Thermo Scientific™ SureTect™<br>Staphylococcus aureus PCR<br>Assay   | Rapidly detect <i>Staphylococcus aureus</i> in food and environmental samples, including infant formula, in less than 24 hours. AOAC-RI validated covering dairy products including infant formula together with other low moisture products and cheeses.   | A56839           |
| and the same of th | Thermo Scientific <sup>™</sup> SureTect <sup>™</sup> Vibrio cholera, V. parahaemolyticus and V. vulnificus PCR Assay   | Rapidly detect <i>Vibrio cholerae, V. parahaemolyticus</i> and <i>V. vulnificus</i> in food samples in as little as 10 hours. AOAC-RI validated on fish and seafood products, with a range of test portion sizes.   | A56837           |
|  | Thermo Scientific™ RapidFinder™ Salmonella species, Typhimurium and Enteritidis Multiplex Kit  Thermo Scientific™ RapidFinder™ Salmonella species, Typhimurium | Simultaneously detect and type Salmonella species, S. Enteritidis and S. Typhimurium with the RapidFinder Salmonella multiplex PCR Kits. AOAC-RI and ISO 16140-2:2016* validated in raw and processed meats, pork and poultry meats, egg products, production environmental samples and primary production.   | A56846<br>A56847 |
|  | and Enteritidis Flex Multiplex Kit  Thermo Scientific™ SureTect™ Salmonella Infantis PCR Assay   | Rapidly confirm Salmonella Infantis in poultry. Complimentary to the RapidFinder Salmonella Multiplex Kit and designed to run simultaneously, the SureTect Salmonella Infantis Assay requires no additional time or data interpretation steps.  | A56450           |
|  | Thermo Scientific™ SureCount™<br>Salmonella species, Typhimurium<br>and Enteritidis PCR Kit  | Simultaneously quantify and type Salmonella species and serotypes Typhimurium and Enteritidis in around 8 hours. Currently undergoing AOAC Performance Tested Methods (PTM) validation for poultry, beef, and pork matrices.  | A56848           |
|  | SureTect™ Brettanomyces spp.<br>and Saccharomyces cerevisiae<br>Multiplex PCR Assay  | Designed for control programs in beverage production, the Thermo Scientific™ SureTect™ Brettanomyces spp. and S. cerevisiae Multiplex PCR Assay rapidly detects and differentiates both <i>Brettanomyces</i> and <i>S.cerevisiae</i> in product and environmental samples. Highly specific, the assay covers the 3 main species of <i>Brettanomyces</i> : <i>B. naardenensis</i> , <i>B. anomalus</i> and <i>B. bruxellensis</i> , enabling robust, rapid response to contamination and faster product release. | A59289           |

 $<sup>{}^*\</sup>mbox{validation according to the ISO 16140-2:2016 standard by AFNOR Certification or MicroVal}$ 

# Easy-to-use tools to simplify your workflow handling

Designed specifically to enhance each step of the SureTect PCR Assay Workflow, the new SureTect PCR Workflow tools enable ease-of-handling, reduced hands-on time and operator error providing a superior user handling experience.



| Product  | Description   | Cat. No |
|--|---|---------|
| Thermo Scientific™ PCR Strip<br>Cutting Tool             | Cutting tool for Strip Plates-used to cut both lysis tube strips and PCR change to PCR Assay Tube strips tube strips, if fewer than 8 tubes are required for the analysis | A55329  |
| Thermo Scientific™ Lysis Tube<br>Uncapping Tool          | Opening tool for Strip Plates-used to remove the domed lysis caps from the lysis tubes  | A55328  |
| Thermo Scientific™ PCR Capping<br>Tool                   | Capping tool for SureTect Lysis and PCR Assay Strip Plates  | A55327  |
| Thermo Scientific™ 96-well PCR<br>Base                   | 96-well base for Strip Plates-hold and stabilize both the Lysis Tubes and Assay Plate   | A55330  |
| Thermo Scientific™ MicroAmp™<br>adhesive film applicator | Pack of 5 For easy, consistent application of Pierceable Seals  | 4333183 |

#### **Accessories**

Each SureTect PCR Assay comes with all the reagents and PCR accessories needed to set up your SureTect PCR Assay tests to run on the Applied Biosystems™ QuantStudio™ 5 Food Safety PCR System. Additional SureTect Accessories are available to order separately, including, low-profile PCR Strip Plates for balancing when using the Applied Biosystems™ 7500 Fast Food Safety PCR System and Domed Lysis Tube Caps for use if preferred in place of the Pierceable Lysis Seals.

|            | Product   | Description  | Cat. No   |
|------------|---|--|-----------|
|            | Thermo Scientific™ 96-well<br>Pierceable Seal                     | Pack of 100 seals <ul> <li>2 included with each kit</li> </ul> <li>Alternative option to lysis caps</li> <li>Print around each well for positioning and orientation</li> <li>Strip perforations</li> | A55331    |
|            | Thermo Scientific™ Lysis Tube<br>Caps, domed                      | Pack of 120 strips Provide the option for caps in addition to pierceable seals for lysis   | A56895    |
| 10000000   | Thermo Scientific™ Low-Profile<br>PCR Strip Plate, 96 well, clear | For balancing of Applied BioSystems™ 7500 fast plates  | AB2696SMP |
| ~eeennoua~ | Thermo Scientific™ Ultra clear<br>qPCR caps                       | Strips of 8, 120 caps<br>Additional PCR caps if required   | PT0615    |

## SureTect Automation Workflow

With the Thermo Scientific SureTect Automation Workflow, you can take your food safety testing to the next level with automated lysis and PCR preparation.

Utilising the CyBio™ FeliX Instrument, the automated workflow and rapid setup allows you to reduce hands-on time whilst increasing the accuracy of your testing, enabling your technicians to focus on other tasks.

With a user-friendly interface and innovative yet compact dual deck design, the CyBio FeliX instrument enables efficient, accurate lysis and PCR preparation whilst saving valuable bench space.

Fully validated by AFNOR and AOAC for use with all SureTect Assays, the instrument's flexible programs and precise pipetting accuracy ensure maximum efficiency and reproducibility.



#### Time Saving

- Fully automated lysis & PCR setup
- Rapid 5-minute setup time for loading reagents



#### Accurate & Traceable

- Enhanced pipetting accuracy, minimizing risk of human error
- Barcoded sample entry for full traceability



#### **Flexible**

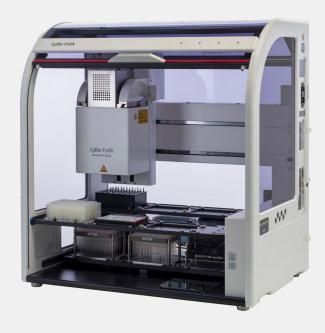
- Up to 6 different assays/96 samples on the same run
- Choose from full or partial plate processing
- Automate lysis, PCR setup or the complete workflow



#### **Intuitive Software**

- · User-friendly interface
- Pre-programmed runs for quick setup

## Key benefits of the CyBio<sup>™</sup> FeliX Instrument



- Ready-to-use, specific SureTect protocols
- Integrated heating and cooling block
- Choose between the CHOICE head for simultaneous 8-sample pipetting or the Head R 96 for 96-sample pipetting
- Unique 2-level deck
- Comprehensive service packages
- Fully validated system AFNOR and AOAC
- Compact design:
  - Dimensions: 650 x 450 x 700 mm
  - Weight: 58 kg

## **SureTect Automation Workflow**

#### CyBio Felix Instrument

| Specifications                                    |  |
|---|--|
| Features  | <ul> <li>Compatible with all SureTect Assays</li> <li>Integrated heating and cooling block</li> <li>Open platform capabilities</li> <li>Up to 96 samples/6 assays per run</li> </ul> |
| Model number                                      | 30-5015-100-24/0L5015-100-24   |
| Pipetting channels                                | 1-384 channels (depending on version and pipetting head) The 384 channel is not available through Thermo Fisher Scientific   |
| Dimensions  | 650 x 450 x 700 mm   |
| Weight  | Approx. 58 kg (Device ready for operation)   |
| Microplate specifications (Formats -SBS Standard) | 96-, 384- shallow well MP<br>96-, 384- deep well MP  |
| Deck positions                                    | Name/number: 1-12 positions  |
| Lower level - max. height (accessory)             | 110 mm   |
| Upper level - max. height (labware)               | 65 mm  |
| Tubes   | 0.2-2 mL   |
|   |  |

| Technical and Operating Data    |   |
|---------------------------------|---|
| Application class               | Bench-top device, closed room facilities in clean condition |
| Protection class                | I   |
| Mains voltage and frequency     | 100 – 240 V AC ±10%, 50/60 Hz                               |
| Degree of contamination         | 2   |
| Permissible ambient temperature | +15 °C to +35 °C  |
| Permissible relative humidity   | ≤ 75 % at +35 °C non-condensing                             |

| Item                                     | Description  | Order code |
|--|--|------------|
|  | Automation Platform CHOICE Head                                  | A59017     |
| Automation Platform, one of              | Automation Platform Head R 96                                    | A66295     |
| the following:                           | Automation CHOICE Head package                                   | A66296     |
|  | Automation Head R 96 package                                     | A66297     |
| SureTect™ Automation<br>Software         | Downloadable at thermofisher.com/molecular-microbiology-software | A66373     |
| Laptop 3551 W10IOT19 RC                  | Or equivalent performing   | A49006     |
|  | SureTect™ Automation Starter Pack:                               | A59905     |
|  | Automation Lysis Tray  | A59019     |
| SureTect <sup>™</sup> Automation Starter | Automation PCR Adapter   | A59018     |
| Pack                                     | Thermo Scientific 96-Well PCR Base                               | A55330     |
|  | <ul> <li>QuantStudio<sup>™</sup> 5 Strip Plate Tray</li> </ul>   | A55332     |
|  | <ul> <li>Thermo Scientific™ PCR Strip Cutting Tool</li> </ul>    | A55329     |
|  | <ul> <li>Thermo Scientific™ PCR Capping Tool</li> </ul>          | A55327     |
| File on The c                            | Filter Tips for SureTect Automation 96 (12 boxes)                | A66298     |
| Filter Tips                              | Filter Tips for SureTect Automation 8/96 (10 boxes)              | A59033     |
| Sample Enrichment Tubes                  | <br>Э\$  |            |
| Enrichment Tubes Caps                    |  |            |
| Waste Bags                               | Waste bags for SureTect Automation                               | A59034     |
| Protective Plate                         | Protective Plate for SureTect Automation A6629                   |            |

# SimpliAmp Thermal Cycler

Utilize the Applied Biosystem<sup>™</sup> SimpliAmp<sup>™</sup> Thermal Cycler in the SureTect PCR Assay workflow to prepare lysates from enriched samples ready for PCR.

By automating the incubation steps for cell lysis, samples are ready for PCR in around 20 minutes with minimal hands-on steps required. The SimpliAmp Thermal Cycler will hold samples ready for use at 4°C once the lysis steps are completed.

With a responsive color touchscreen and Applied Biosystems™ VeriFlex™ temperature control technology, the SimpliAmp Thermal Cycler enables simple, accurate optimization in addition to cloud enablement, giving you the freedom to design and securely upload your methods, monitor runs, and check instrument availability from any mobile device or desktop computer with the Connect Platform.

### **Key benefits**



#### Intuitive interface

Large, easy-to-use color touchscreen for easy programming and quick status checks



#### VeriFlex Block

Three independent temperature zones for PCR optimization



#### Cloud-enabled

Conveniently access your instrument anytime, anywhere with the Connect Platform



#### Compact design

Helps save valuable bench space

### **Key benefits**



#### Elegantly simple and precise

SimpliAmp Thermal Cycler

- 96 reactions
- 4.0°C/sec
- 96-well, 0.2 mL (3-zone Veriflex Block)
- Select your saved SureTect Sample Preparation program
- The status dial displays the current block temperature and elapsed run time
- Create a new run method using default templates or existing methods
- Use the instrument as a precise incubator for non-PCR workflows

## SimpliAmp Thermal Cycler

#### **Specifications**

| Block format            | 96-well, 0.2 mL, 3-zone VeriFlex Block   |  |
|-------------------------|--|--|
| Features                | <ul> <li>Enabled to run Fast chemistry</li> <li>Controllable ramp rate</li> <li>Program overwrite protection</li> <li>Auto restart (after power outages</li> <li>Edit program during experiment</li> <li>One-touch incubation</li> </ul> |  |
| Max. block ramp rate*   | 4°C/sec  |  |
| Max. sample ramp rate*  | 3°C/sec  |  |
| Temperature accuracy    | ±0.25°C (35–99.9°C)  |  |
| Temperature uniformity  | <0.5°C (30 sec after reaching 95°C)  |  |
| Temperature calibration | Calibrated to standards traceable to the National Institute of Standards and Technology (NIST)   |  |
| Dimensions (H x W x D)  | 21.0 x 24.0 x 46.0 cm (8.3 x 9.5 x 18.1 in.)   |  |
| Weight                  | 8.3 kg (18.3 lb)   |  |
| PCR volume range        | 10–100 MI  |  |
| Instrument memory       | 2,000 MB onboard memory (capacity for >1,000 protocols); USB port for additional external storage  |  |
| Display interface       | 8 inch color TFT LCD   |  |
| Power                   | 100-240 V, 50-60 Hz, max. 600 W  |  |
| VeriFlex Block          | 3 temperature zones, 20°C range (10°C zone-to-zone)  |  |
| Data connectivity**     | Cloud or mobile via Ethernet or Wi-Fi  |  |
| ***                     |  |  |

<sup>\*</sup> At reaction volume of 1  $\mu$ L.

#### Ordering information

| Product                          | Cat. No |
|----------------------------------|---------|
| SimpliAmp Thermal Cycler         | A24811  |
| Recommended Accessories          |         |
| SimpliAmp Strip Plate Tray       | A55333  |
| SimpliAmp Strip Plate Tray cover | A55971  |

## Did you know?

SimpliAmp Thermal Cyclers have thermal simulation modes that make the transition from other thermal cyclers simple, accurate, and efficient.

A library of modes that mimic the ramp rates of other instruments is available on each instrument.

<sup>\*\*</sup> The Instrument Connect app, available at Apple and Google app stores, can be used to monitor your instrument. The Connect Platform can be used to create and share protocols, schedule an instrument, and start and monitor runs remotely

# QuantStudio 5 PCR System

The SureTect PCR Assays are validated to run on the Applied Biosystems<sup>™</sup> QuantStudio<sup>™</sup> 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.

Benefit from the flexibility of a 6-channel, 96-well, cloud-enabled open platform suitable for running our full range of PCR solutions for food safety, authenticity, and quality testing.



#### Intuitive and simple

Easy to use for all levels of experience. Touchscreen usability, allowing you to stay connected to your data easily

#### Multiplex with ease

Up to six excitation and six emission filters offer 21 different color combinations, allowing a broad range of detection chemistries and maximum multiplexing

#### Get up and running quickly

Factory-calibrated for accuracy, quick installation, and immediate use; preoptimized protocol templates help minimize training for new users

#### Maximize benchtop space

Compact instrument can be configured as a stand-alone or with a computer

#### **Open instrument**

Suitable for all our food safety, authenticity, and quality PCR tests. Intuitive, user-friendly software, avoiding subjective interpretation. Cloud-enabled, offering the potential for data sharing, analysis and trending. Capacity for processing several hundred samples a day

# QuantStudio 5 Food Safety PCR System

#### **Specifications**

| For when you need:           | Total control   |
|------------------------------|---|
|                              | QuantStudio 5 Food Safety PCR System  |
| Colors                       | 5 or 6 colors (21 filter combinations)  |
| Available formats            | 96-well (0.1 mL block)  |
| Dimensions (H x W x D)       | 40 x 27 x 50 cm   |
| Block change                 | Fixed   |
| VeriFlex temperature control | Yes, 6 zones (96-well blocks only)  |
| Throughput                   | Medium -High  |
| 21 CFR Part 11-enabled       | Security, auditing, e-signature package   |
| Touchscreen                  | Yes, interactive  |
| Cloud-enabled                | Yes   |
| Automation compatible        | Yes   |
| Key Food Applications        | <ul> <li>Food pathogen detection</li> <li>GMO testing</li> <li>Meat and Fish species Identification</li> <li>Legionella detection and quantification</li> </ul> |





# QuantStudio 5 Food Safety PCR System

#### Specifications continued

|   | QuantStudio 5 Food Safety PCR System   |
|---|--|
| Sample capacity (wells)                           | 96   |
| Reaction volume                                   | 96-well, 0.1 mL block: 10-30 μL  |
| Footprint (H x W x D)                             | 40 x 27 x 50 cm  |
| Excitation source                                 | Bright white LED   |
| Optical detection                                 | 96-well: 6 decoupled filters   |
| Excitation/detection range                        | 96-well: 450-680 nm/500-730 nm   |
| Multiplexing                                      | 96-well: up to 6 targets   |
| 2D barcode reading                                | Optional   |
| Heating/cooling method                            | Peltier  |
| Temperature zone function                         | 96-well: 6 VeriFlex zones  |
| Max. block ramp rate                              | 0.1 mL block: 9.0°C/sec  |
| Average sample ramp rate                          | 3.66°C/sec   |
| Temperature uniformity                            | 0.4°C  |
| Temperature accuracy                              | 0.25°C   |
| Run time  | 96-well block: <30 min runs  |
| Dye compatibility (name)                          | FAM/SYBR Green, VIC/JOE/HEX/TET, ABY/NED/TAMRA/Cy3, JUN, ROX/Texas Red, Mustang Purple, Cy5/LIZ, Cy5.5 |
| Chemistry capabilities                            | Fast/standard  |
| Features to assist with 21 CFR Part 11 compliance | Yes, with no additional fees   |
| Detection sensitivity                             | 1 copy   |
| Sensitivity                                       | Detect differences as small as 1.5-fold in target quantities in singleplex reactions                   |

| QuantStudio 5 Food Safety PCR System                                      | Cat. No. |
|---|----------|
| QuantStudio 5 Food Safety PCR System (96-Well, 0.1 mL Block)              | A36329   |
| QuantStudio 5 Food Safety PCR System (96-Well, 0.1 mL Block) with Laptop  | A36328   |
| QuantStudio 5 Food Safety PCR System (96-Well, 0.1 mL Block) with Desktop | A36320   |
| Recommended Accessories   |          |
| QuantStudio 5 Strip-Plate Tray  | A55332   |

# RapidFinder Analysis **Software**

An integral part of the SureTect PCR Assay workflow, the Thermo Scientific™ RapidFinder™ Analysis Software, is a graphical, easy-touse tool for food and environmental testing labs to optimize their pathogen detection workflow when using the QuantStudio 5 Food Safety PCR System.



### Simple set-up

- Intuitive sample set up
- Flexible plate layout including automatic or customisable options
- Pre-set, optimized thermal cycling conditions per target



## **Automatic data interpretation**

- Fully automated amplification, detection, data collection, and data analysis
- Quick interpretation of data with flags, notifications, and prompts
- Detailed report generation for printing or export
- Interoperability with LIMS or similar data management tool for importing plate set-up and exporting assay results
- Automatically generates results (presence or absence of the target)
- Offers interrogation of results for the whole plate, grouped by sample, or for individual PCR tubes

| Description  | Quantity   | Cat. No |
|--|------------|---------|
| Thermo Scientific™ RapidFinder™ Analysis Software v3.0 | 1 download | A53289  |

## New SureTect Trays for ease-of-handling

#### Ordering information

| Product                          | Description  | Cat. No |
|----------------------------------|--|---------|
| SimpliAmp Strip-Plate Tray       | Pack of 10 For compatibility and ease of loading SureTect lysis tubes into the SimpliAmp Thermal Cycler              | A55333  |
| QuantStudio 5 Strip-Plate Tray   | Pack of 10 For compatibility and ease of loading SureTect assay tubes into the Quant Studio 5 PCR instrument         | A55332  |
| SimpliAmp strip plate tray cover | Pack of 10 For covering lysis tubes sealed with pierceable film during pipetting and PCR tubes during centrifugation | A55971  |

# Workflow Improvement Starter Pack

| Product   | Product  | Cat. No |
|---|--|---------|
| PCR Strip Cutting Tool Cutting tool for SureTect Lysis and Assay strips. Easily and safely cut the strips to provide the exact number of tubes required | QuantStudio 5 Strip-Plate Tray   |         |
| PCR Lysis Tube Uncapping Tool<br>Uncapping Tool for the SureTect<br>Lysis Strip Tubes   | ABI 7500 Fast Precision Plate<br>Adapter   |         |
| PCR Capping Tool Capping tool for SureTect Lysis and PCR Assay plates   | SimpliAmp strip plate tray cover   | A56898  |
| 96-well PCR Base 96-well base for SureTect Lysis and Assay strips—used to hold the tubes in both the Lysis step and PCR step                            | MicroAmp Adhesive Film Applicator For applying Pierceable Lysis Tube Seals   |         |
| SimpliAmp Strip-Plate Tray  | Lysis tube caps-domed-pack of 120 strips Provide the option for caps instead of, or in addition to, pierceable seals for Lysis Tubes | -       |

