thermo scientific



Bringing more to food safety and authenticity

ThermoFisher SCIENTIFIC

More confidence for food testing

When it comes to food safety and quality, no one can afford to compromise. That's why all Thermo Scientific™ microbiology solutions are developed with a deep understanding of the unique needs of the food testing laboratory. From culture media and diagnostic kits, to quality control organisms, our comprehensive workflow solutions are designed to bring more to microbiology.

Quality products for your complete workflow

Sample Collection → Sample Enrichment/ Dilution → Detection/ Enumeration → Identification/ Confirmation → Further ID/ Characterization

Sample enrichment

Thermo Scientific™ Dehydrated culture media & supplements

Product	Code
Buffered Peptone Water (ISO)	CM1049
Rappaport Vasiliadis Soy Broth (RVS)	CM0866
Muller Kauffmann Tetrathionate Novobiocin Broth (MKTTn)	CM1048+SR0181
Thermo Scientific™ Oxoid™ ONE Broth-Salmonella	CM1091+SR0242
Half Fraser Broth	CM0895+SR0166
Fraser Broth	CM0895+SR0156
Thermo Scientific™ Oxoid™ ONE Broth-Listeria	CM1066+SR0234
Giolitti and Cantoni Broth	CM0523+SR0030

Product	Code
Lauryl Sulphate Broth	CM0451
EC Broth	CM0853
Modified Tryptone Soya Broth with Novobiocin	CM0989+SR0181
EE Broth	CM0137
Lauryl Sulphate Tryptose Broth	CM0451
Bolton Broth	CM0983+SR0203/ SR0183+SR0048
Tryptone Soya Broth	CM0129+SR0099

Thermo Scientific™ Bagged Enrichment Media

Increase productivity by decreasing culture media preparation time to few minutes



Thermo Scientific™ FitBag™ Enrichment Media

Just fill with water, break the dividing seal and use as needed

Preparation time

< 10 minutes

Available volumes

2.7 L, 4.5 L, 9 L



Thermo Scientific™ QuickBag™ Enrichment Media

To use, simply break the dividing seal, mix and start dispensing

Preparation time

< 5 minutes

Available volumes

2.7 L, 4.5 L



Thermo Scientific™ Dry-Bags™ Enrichment Media

Add water to the pre-weighed powder, mix, and dispense

Preparation time

< 30 minutes

Available volumes

20 L

Ensure efficiency across your entire workflow with comprehensive range



Thermo Scientific™ Peristaltic Pump

Fill your FitBag and Dry-Bags Media in quick and easy way



Thermo Scientific™ DiluFlux Pro™ Automated Gravimetric Dilutor

Dilutes samples quickly and accurately at the touch of a button



Thermo Scientific™ Homogenizer Laboratory Blender

Achieve powerful, quite sample homogenization in under a mintue

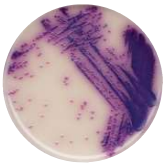
Pathogen detection and enumeration: Conventional method

Thermo Scientific™ Culture media and supplements

Product	Code
Baird-Parker Agar (ISO)	CM1127+SR0054
Oxoid™ Baird-Parker RPF Agar	CM0961+SR0122
XLD Agar	CM0469
Brilliant Green Agar (Mod)	CM0329
OCLA (ISO)	CM1084+SR0244,SR0226
PALCAM Agar	CM0877+SR0150
Listeria Selective Agar (Oxford)	CM0856+SR0140/SR0206
Tryptone Bile Agar (TBX)	CM0945
Cefixime Tellurite Sorbitol MacConkey Agar	CM0813+SR0172
Cefixime Rhamnose Sorbitol MacConkey Agar	CM1005+SR0191
Violet Red Bile Glucose Agar (ISO)	CM1082
Violet Red Bile (Lactose) Agar (ISO)	CM0968

Product	Code
Fluid Thioglycollate Medium	CM0173
mCCD Agar	CM0739+SR0155
Karmali Selective Medium	CM0935+SR0167
Skirrow Selective Medium	CM0331+SR0069
Butzler Selective Medium	CM0331+SR0214
Bacillus cereus Selective Agar (PEMBA)	CM0617+SR0099+SR0047
MYP Agar	CM0929+SR0099+SR0047
MRS (ISO) Agar	CM1153
MacConkey Agar	CM0115
Hektoen Enteric Agar	CM0419
DRBC Agar	CM1148+SR0078 or CM1149
DG18 Agar	CM1150+SR0078 or CM1151

Thermo Scientific™ *Brilliance™* Agar



Brilliance Salmonella Agar

Contains novel Thermo Scientific™ Inhibigen™ technology, giving targeted specificity and reduced background flora



Brilliance Staph 24 Agar

A selective and diagnostic chromogenic medium for the isolation and enumeration of coagulase - positive staphylococci in foods, within 24 hours



Brilliance Listeria Agar

For differentiation of *Listeria spp*. and *Listeria monocytogenes* by 24hr plate incubation, validated by AFNOR to ISO 16140 standard



Brilliance CampyCount Agar

Designed for the identification & enumeration of *Campylobacter jejuni* and *Campylobacter coli,* validated by MicroVal to ISO 16140

Prepared media

Eliminate time consuming media preparation and achieve accurate, consistent results with variety of convenience formats of bottles, plates and tubes

Product	Code
Plate count agar	PO0158A
Baird-parker (ISO) agar	PO1195A
TBX chromogenic medium	PO5109A
OCLA (ISO)	PO1196A
Listeria agar (Oxford)	PO0179A



Atmosphere Generation Systems

Designed to create correct atmospheric conditions you need for microorganisms to thrive

Product	Code
Oxoid AnaeroGen Compact / W-zip	AN0010C / AN0010W
Oxoid CampyGen Compact	CN0020C
Oxoid AnaeroJar 2.5L / 3.5L	AG0025A / AG0035A
Oxoid AnaeroGen 2.5L / 3.5L	AN0025A / AN0035A
Oxoid CampyGen 2.5L /3 .5L	CN0025A / CN0035A
Anaerobic Indicator	BR0055B



Pathogen detection and enumeration: Molecular method

Applied Biosystems™ QuantStudio™ 5 (0.1.mL block) Food Safety Real-Time PCR system



High performance benchtop platform combining ease-of-use and system connectivity. 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. Simple Intuitive Software enables rapid, straightforward PCR set-up, automatic data interpretation, and traceability of results.

Applied Biosystems™ 7500 Fast Real-Time PCR system



96-well format, high-speed thermal cycling, delivering high-quality results in less than 40 minutes, offers robust high-resolution melting analysis, widely accepted in FDA BAM, EPA, USDA and other government reference methods for variety of target detection.

Thermo Scientific™ SureTect™ Real-Time PCR Assays

- Fast, optimized single enrichment step and automatic result interpretation
- Streamlined lysis and PCR protocols that allow for the detection of multiple targets in the same run
- Pre-filed lysis tubes and tableted PCR reagents to minimize the number of pipetting steps and hands-on time
- Validated for a broad range of targets and matrices according to ISO and AOAC certification requirements

Product	Code
Thermo Scientific™ SureTect™ Campylobacter jejuni, C. coli and C. lari PCR Assay	A44251
Thermo Scientific™ SureTect™ Cronobacter species PCR Assay	PT1060A
Thermo Scientific™ SureTect™ Escherichia coli O157:H7 PCR Assay	PT0400A
Thermo Scientific™ SureTect™ Escherichia coli STEC Identification PCR Assay	A45330
Thermo Scientific™ SureTect™ Escherichia coli O157:H7 and STEC Screening PCR Assay	A44254
Thermo Scientific™ SureTect™ Listeria monocytogenes PCR Assay	PT0300A
Thermo Scientific™ SureTect™ Listeria species PCR Assay	PT0200A
Thermo Scientific™ SureTect™ Salmonella species PCR Assay	PT0100A
Thermo Scientific™ SureTect™ Staphylococcus aureus PCR Assay	A44255
Thermo Scientific™ SureTect™ Vibrio cholerae, V. parahaemolyticus and V. vulnificus PCR Assay	A44253



Test for an extended range of targets

Applied Biosystems™ MicroSEQ™, RapidFinder™ and TaqMan™ Assays enable you to choose a sample preparation method to suit your needs with workflows incorporating manual and semi-automated options.



Product	Code
Thermo Scientific™ RapidFinder™ Salmonella species, Typhimurium & Enteritidis Multiplex PCR Kit New	A33227
TaqMan™ Bacillus anthracis PCR Assay	4382486

Applied Biosystems™ PrepSEQ™ Sample Preparation kits

Extraction kits designed to produce high-quality bacterial DNA and viral RNA samples for PCR-based detection from a wide range of food and environmental samples

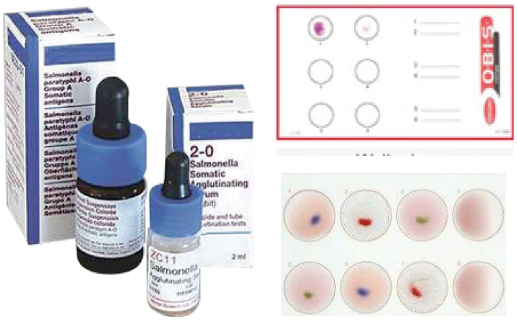


Product	Code
PrepSEQ Rapid Spin Sample Preparation Kit	4407760
PrepSEQ Rapid Spin Sample Preparation Kit Extra Clean (for samples with high lipid content)	4413269
PrepSEQ Rapid Spin Sample Preparation Kit with Proteinase K (for difficult-to-lyse bacteria)	4428714
PrepSEQ Rapid Spin Sample Preparation Kit Extra Clean with Proteinase K	4426715

Identification/confirmation

Agglutination kits

Accurate, simple, rapid and convenient solutions to suit all of your identification needs, available in one place



Product	Code
Salmonella O Agglutinating Serum	R308528201
Salmonella Vi Agglutinating Serum	R30957401
Salmonella H Agglutinating Serum	R30858501
Oxoid Salmonella Test Kit	DR1108A
Wellcolex™ Colour Salmonella Kit	R30858301
Oxoid™ O.B.I.S. mono	ID0600M
O.B.I.S. campy	ID0800M
DrySpot™ E.coli O157	DR0120M
Oxoid E.coli O157 Latex Test	DR0620M

Thermo Scientific™ RapID™ Identification systems

RapID Systems are ideal for stand-alone testing providing a definitive answer to a significant bacteria identification faster

- One step inoculation
- 4 hrs incubation
- No pipetting
- No oil required
- No instrument required
- Online free software



Product	Code
RapID ANA II Panel	R8311002
RapID ONE Panel	R8311006
RapID STAPH PLUS Panel	R8311009
RapID YEAST PLUS Panel	R8311007

Thermo Scientific™ Oxoid™ Microbact™ Biochemical systems

Combined with Microbact Software, experience simpler procedures, reduced errors, visible color reactions and precise reporting for Gram negative organisms, *Listeria* and *Staphylococcus aureus.*



Product	Code
Microbact GNB 24E Kit	MB1131A
Microbact Listeria 12L Kit	MB1128A
Microbact Staphylococcal 12S Kit	MB1561A

Thermo Scientific™ Sensititre ID/AST system

Sensititre System is a leader in antimicrobial susceptibility and identification (AST/ ID) testing, offering flexible, customizable testing options to accommodate laboratories of all sizes in compliance to FDA, CLSI and EUCAST.

Thermo Scientific Sensititre custom plate capabilities enable you to design Antimicrobial Susceptibility Testing tailored to your formulary and patient population. With antimicrobial susceptibility testing dilution ranges of your choice and the ability to update formats conveniently, you get relevant results that are based on real-time resistance trends and local epidemiology, improving clinical success and effectively managing resistance in your institution.

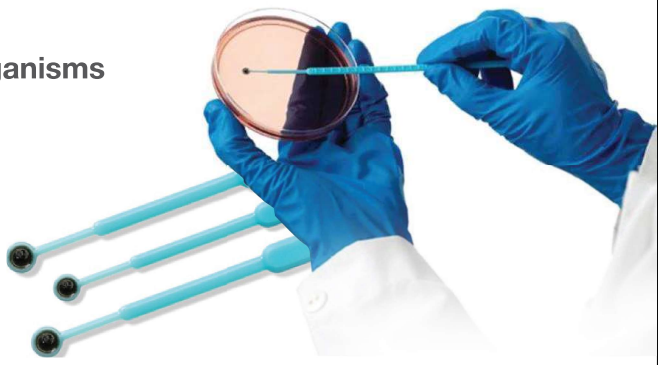


Quality control organisms

Thermo Scientific™ Culti-Loops™ quality control organisms

Ready-to-use, disposable bacteriological loops containing stabilized, viable ATCC® strains in a unique gel matrix

- Convenient, ready-to-use, disposable loops
- Organisms include bacterial and fungal isolates
- Individually wrapped in foil-sealed pouches to preserve viability



Toxin detection

Thermo Scientific™ Oxoid™ Toxin Detection kits

Uses reverse passive latex agglutination to detect toxins from cultures

Product	Code
Oxoid BCET-RPLA Toxin Detection Kit	TD0950A
Oxoid PET-RPLA Toxin Detection Kit	TD0930A
Oxoid SET-RPLA Toxin Detection Kit	TD0900A
Oxoid TST-RPLA Toxin Detection Kit	TD0940A
Oxoid VET-RPLA Toxin Detection Kit	TD0920A
Oxoid VTEC-RPLA Toxin Detection Kit	TD0960A



Allergen detection

ELISA Systems™ kits

A comprehensive range for detecting and quantifying allergen proteins and residues in food and swab samples

Product	Code
Almond Residue Detection Kit	ESARD-48
Buckwheat Residue Detection Kit	ESBWPRD-48
Casein Residue Detection Kit	ESCASPRD-48
Crustacean Residue Detection Kit	ESCRURD-48
Egg Residue Detection Kit	ESERD-48
Enhanced Egg Residue Detection Kit	ESEGG-48
Gliadin Residue Detection Kit	ESGLISS-48
Hazelnut Residue Detection Kit	ESHRD-48
Lupin Residue Detection Kit	ESLFP-48
Milk (β-Lactoglobulin) Residue Detection Kit	ESMRDBLG-48
Mustard Seed Protein Residue Detection Kit	ESMUS-48
Peanut Residue (Sensitive) Detection Kit	ESPRDS-48
Sesame Seed Protein Residue Kit	ESSESE-48
Total Milk Residue Assay	ESTMLK-48
Soy Protein Residue Detection Kit	ESSOYPRD-48



GMO screening and quantification

GMO Extraction kit



Provides a fast and easy silica-based DNA purification method to obtain DNA from a wide variety of food samples.

Product	Code
GMO Extraction Kit	4466338

TaqMan GMO Screening kit



- Detects GMO events approved by the EU as well as the majority of those described in international databases
- Detects regions P35S & CaMV, TNOS & excludes presence of CaMV, *A. tumefacians* and P34S & FMV using the three GMO event master mixes
- Contains master mixes for the multiplex amplification of an Endogenous Vegetal Control (EVC) and Internal Positive Control (IPC)
- IPC allows verification of the PCR process in the presence of inhibitors
- Unique specificity: Excludes presence of CaMV, *A. tumefaciens* and FMV critical to avoid false GMO identification
- High sensitivity: Detects down to levels of five DNA copies (equivalent to 0.01%)
- Results within 3 hours

TaqMan Roundup Ready Soya Quantifation kit

- Detect and quantify the percentage of Roundup Ready™ (RR) soya (event: MON-04032-6; GTS 40-3) compared to the total soya in any food or animal food feed sample

TaqMan GMO Maize Quantification

- Detection and quantify the percentage of P35S compared to the total maize in any food sample or feed sample

Product	Code
TaqMan® GMO Screening Kit	4466334
TaqMan® Roundup Ready Soya Quantification Kit	4466335
TaqMan® GMO Maize Quantification Kit	4481972

Detection and quantification of species DNA in meat and feed





RapidFinder ID kit

- Detects mitochondrial DNA in food samples
- Contains a positive control consisting of 0.1% species DNA
- Internal Positive Control (IPC) allows ruling out inhibitors during PCR
- Highest sensitivity: limit of detection of 0.01% (w/w) in fresh meat

RapidFinder Quant Multi-Meat set

- Detects mitochondrial DNA in food samples
- Includes the standards for quantification (species and animal)
- Internal Positive Control (IPC) allows ruling out inhibitors during PCR
- Highest sensitivity: limit of detection of 0.05% (w/w) in fresh meat

Product	Code
RapidFinder™ Beef ID Kit (Species detected Bos luarus)	A24391
RapidFinder™ Pork ID Kit (Species detected Sus scrofa)	A24392
RapidFinder™ Chicken ID Kit (Species detected Gallus gallus)	A24393
RapidFinder™ Turkey ID Kit (Species detected Meleagris gallopavo)	A24394
RapidFinder™ Sheep ID Kit (Species detected Ovis aries)	A24395
RapidFinder™ Equine ID Kit (Species detected Equus caballus)	A15570

Product	Code
RapidFinder™ Poultry ID Kit (Several avian species detected)	A24397
RapidFinder™ Fish ID Kit (Broad scope of fish species detected)	A24398
RapidFinder™ Quant Multi-Meat Set	A24399
RapidFinder™ Quant Equine Set	A15579
RapidFinder™ Vegan ID Kit New	A24412
RapidFinder™ Halal ID Kit New	A47086

Next Generation Sequencing for species identification

The first complete NGS workflow for meat, fish and plant species screening and identification

The Thermo Scientific™ Next Generation Sequencing (NGS) Food Authenticity Workflow utilises Ion Torrent™ Next Generation Sequencing technology to enable an untargeted screening approach making it possible to identify the species contained in a food sample by comparison with an extensive DNA database of meat, plant and fish species.



DNA Preparation	Library Preparation	Template Preparation	Sequencing	Data Analysis
1 - 16 hours	4 hours	12 hours	<5 hours	~1.5 hours
Thermo Scientific™ DNA Extraction Kit	SGS™ All Species ID DNA Analyser Kits	Ion Chef™ System	Ion GeneStudio™ S5 System Next Generation Sequencer	Torrent Suite™ and SGS™ All Species ID Software

Product	Code
SGS All Species Meat DNA Analyzer Kit II	A38453
SGS All Species Meat DNA Analyzer Kit I	A38452
SGS All Species Fish DNA Analyzer Kit I	A38454
SGS All Species Fish DNA Analyzer Kit II	A38455
SGS All Species Plant DNA Analyzer Kit I	A38456
SGS All Species Plant DNA Analyzer Kit II	A38457
Ion S5™ Food Controls Kit Plus	A39478

Product	Code
Ion GeneStudio™ S5 Food Protection System	A39513
Ion Chef™ Food Protection Instrument	A39514
Ion GeneStudio™ S5 Plus Food Protection System	A44648
Ion GeneStudio™ S5 Prime Food Protection System	A44649
Ion 510™ Food Protection Chip Kit	A27769
Ion 520™ Food Protection Chip Kit	A39473
Ion 510™ & Ion 520™ & Ion 530™ Food Protection Kit – Chef (1 sequencing run per initialization)	A39476
Ion 510™ & Ion 520™ & Ion 530™ Food Protection Kit – Chef (2 sequencing runs per initialization)	A39477

Thermo Scientific™ Qubit™ food protection starter pack

For use with the Thermo Scientific™ NGS Food Authenticity Workflow

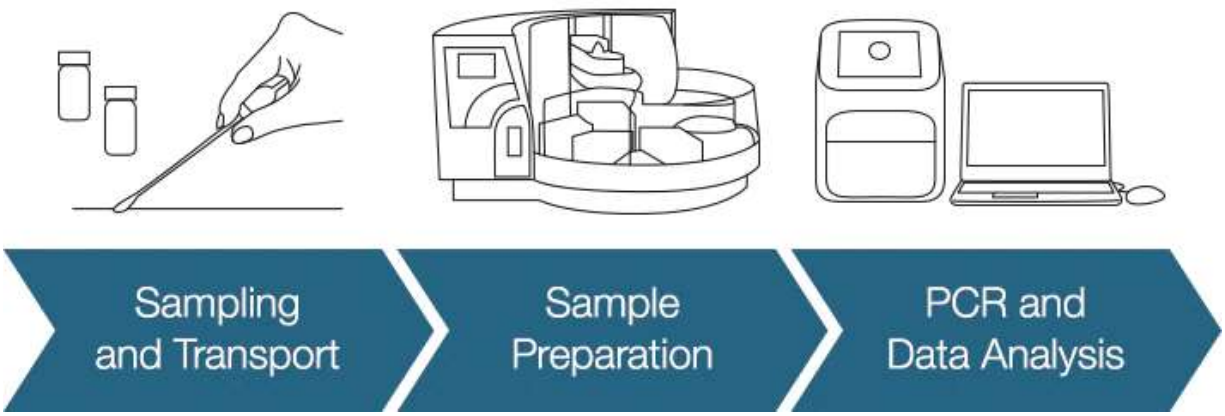
- Designed to quickly and specifically measure DNA quantity
- Accurately quantify dsDNA extracted from the sample and allow dilution of the DNA to the required volume for testing
- User-friendly fluorometer, combined with quick and simple assay procedure using a simple mix and read format



Product	Code
Qubit™ Food Protection Starter Pack	A39533
Qubit dsDNA BR Assay Kit	Q32853
Qubit Assay Tubes	Q32856

SARS-CoV-2 detection for food packaging & environmental surface lab products and solutions

Environmental monitoring is already common in the food industry to monitor facilities for pathogens and allergens and to determine if sanitation programs are being effective. Reliable tests for detecting coronavirus on food and/or environmental surfaces are critical to food supply chain and retail businesses concerned with protecting workers and consumers as public health restrictions are relaxed.



Sampling and Transport

Product	Code
Thermo Scientific™ MicroTest™ Flocked Swab Kits	R12542
Thermo Scientific™ Phosphate Buffered Saline	BO0971G / BR0014G

Sample preparation and nucleic acid extraction

Product	Code
DynaMag™-2 Magnet	12321D
Qubit™ 4 Fluorometer 1 instrument	Q33226
Applied Biosystems™ PrepSEQ™ Nucleic Acid Extraction Kit for Food and Environmental Testing	4428176
KingFisher Flex 96 Deep Well	A32681
Thermo Scientific™ Food Safety KingFisher mL System	5400050C
Applied Biosystems™ KingFisher™ mL Food Protection Purification System Tubes & Tips	15951

Virus Detection: Accurate and fast by multi-platform detection

Product	Code
Applied Biosystems™ RNA UltraSense™ One-Step Quantitative RT-PCR System	11732927
Applied Biosystems™ TaqMan™ 2019nCoV Assay Kit v1	A47532
Applied Biosystems™ TaqMan™ 2019-nCoV Control Kit v1	A47533
Applied Biosystems™ QuantStudio™ 5 Food Safety Real-Time PCR System 96-well, 0.1 mL Block, QuantStudio™ Design Analysis Software v1.5.1 or later and RapidFinder™ Analysis Software v.1.0 or later (Included)	A36328
Applied Biosystems™ 7500 Fast Food Safety Real-Time PCR System 96-well, 0.1 mL block, laptop, 7500 Software SDS and RapidFinder™ Express v.2.0 Software (included)	A30299

Access a more complete solution for each step of your microbiological and food authenticity testing workflow



We can help you to

"Remain adaptive, responsive and competitive to protect your brand without compromising your laboratory workflow."

For a more complete workflow, visit **thermofisher.com/microbiology**

© 2020 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are property of Thermo Fisher Scientific Inc. unless otherwise specified.

Contact Information:
hsi_marketing@thermofisher.com
Call India toll-free: 1-800-222-230
To fax an order: 022-6680-3001
Phone No. : 022 6680 3000 / 6716 2200

ThermoFisher SCIENTIFIC