



PERKINELMER FOOD SAFETY TESTING SOLUTIONS



PerkinElmer Food Safety

To assess the safety of food supplies around the world, we offer industry-leading solutions detecting risks to human and animal health. Our products are used extensively by researchers throughout the food and beverage industry to detect the presence of pathogens as well as harmful levels of toxins, heavy metals, and pesticides, ensure compliance with regulations around the globe.



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Solus ELISAs

The Solus ELISA range has long been the cornerstone of our pathogen detection system, based on enzyme linked immunosorbent assay (ELISA). Developed and manufactured by PerkinElmer specifically for the food safety testing market. Our kits utilise proprietary antibodies and have been designed, manufactured and tested to deliver class leading performance.

Alongside the ELISA kits we also provide tried and tested media solutions to complete all parts of the pathogen detection workflow. Post enrichment our kits deliver negative or presumptive positive results within two hours.

Solus ELISA kits provide a fast, accurate, comprehensively validated alternative to traditional pathogen detection methods whilst providing a cost effective, easy to adopt workflow. PerkinElmers, quality, reliable delivery, outstanding service and aftercare provides customers with the assurance needed to satisfy fast paced dynamic businesses serving an ever-demanding market.



Solus Listeria ELISA



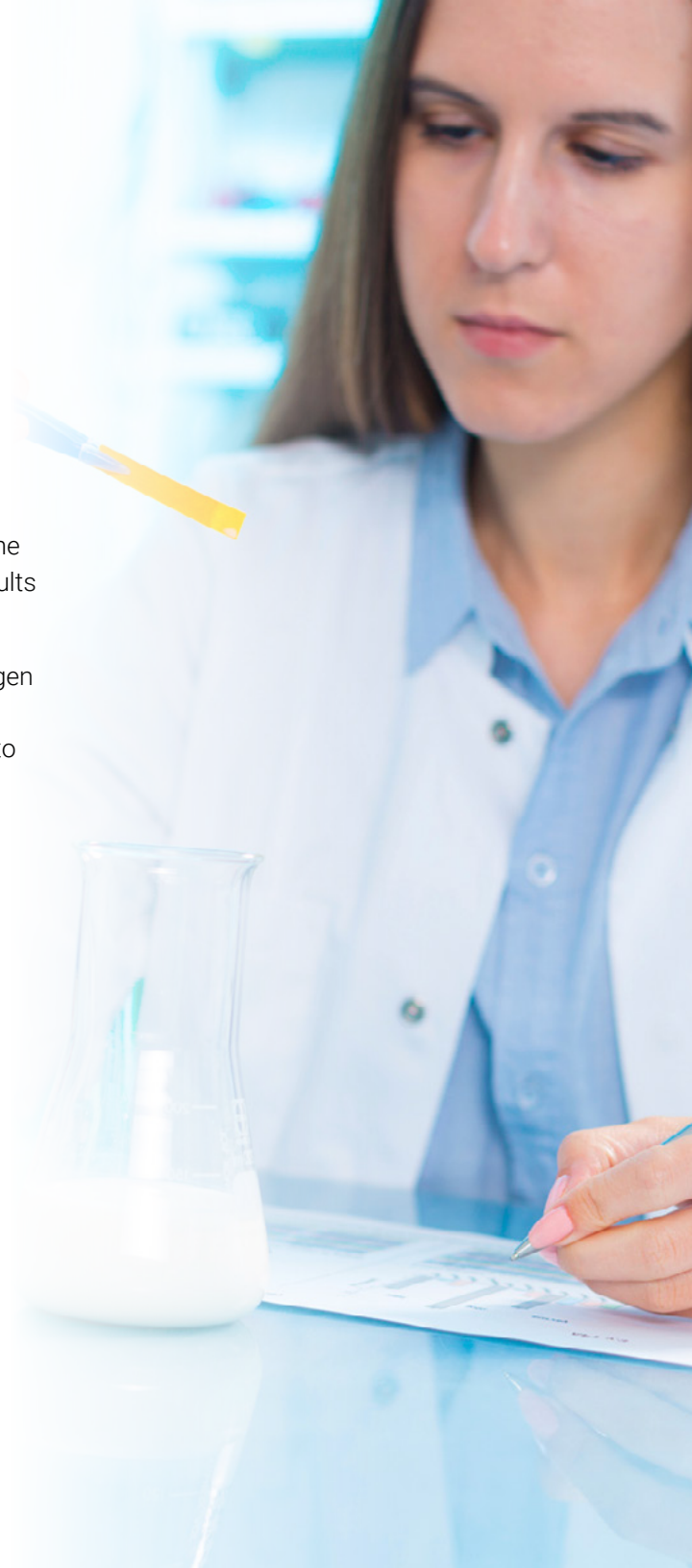
Solus Salmonella ELISA



Solus E.coli 0157 ELISA



Solus Listeria monocytogenes ELISA



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Validation – Solus 2-days range

Listeria		L. monocytogenes		Salmonella		E. coli 0157
ISO 16140 (AFNOR) Broad Range of Foods	PTM (AOAC)	PTM (AOAC)	ISO 16140 (AFNOR) Broad Range of Foods	ISO 16140 (AFNOR) Broad Range of Foods	PTM (AOAC)	ISO 16140 (AFNOR) Broad Range of Foods
SOL-37/02-06/13	PTM 041601	PTM 082001	SOL-37/05-10/22	SOL-37/01-06/13	PTM 051601	SOL-37/03-10/15_
Composite foods (RTE, RTRH, Pastries, egg products) (25g) Meat products (Raw, RTE, Delicatessen) (25g) Dairy products (Raw milk, Raw milk cheese, Desserts, milk powders, ice creams, pasteurized milk cheese) (25g) Seafood (Raw fish, Smoked cured fish, RTE) (25g) Vegetables (Fresh and frozen vegetables, spices, aromatic herbs, RTE) (25g) Environmental samples (Process water, sponges, swabs, dusts, residues)	Bagged romaine lettuce (25g) Hot dogs (25g) Frozen raw shrimp (25g) Smoked salmon (25g) Soft cheese (brie) (25g) Environmental swab (Stainless steel) Environmental sponge (Polystyrene)	Romaine lettuce (25g & 125g) Hot dogs (25g & 125g) Deli ham (25g & 125g) Processed cheese (25g & 125g) Frozen raw shrimp (25g) Ground beef (25g) Environmental surfaces (swabs and sponges)	Composite foods (RTE, RTRH, RTRH, confectionaries, pastries, egg products) Meat products (raw products (frozen or fresh), meat-based products RTRH, raw and cooked deli meats) Milk and dairy products (raw milk cheeses, other products based on raw milk, heat treated products) Vegetables (raw products (fresh and frozen), pre-cooked vegetables, vegetables cooked under modified atmosphere, RTE) Seafood and fishery products (raw products (fresh and frozen), cured and smoked, RTE, RTRH) Environmental samples (dust and residues, cleaning and process waters, surface samples)	Composites (RTE, RTRH, RTC, Seasoned, smoked) (25g) Meat products (Pork, beef, poultry, delicatessen) (25g) Dairy products (Milks and fermented milks, cheeses, desserts, milk powders, ice creams) (25g) Egg products (Egg powders, liquid egg products, egg-based products mayonnaises, custard, etc.) (25g) Seafood and vegetables (Fresh, raw, frozen products, heat-treated products, composite foods (salads with dressings...)) (25g) Feed products (Raw products, dried products, heat processed products) (25g) Environmental samples (Process water, sponges, swabs, dusts)	Raw chicken breast (25g) Raw salmon fillet (25g) Bagged romaine lettuce (25g) Shredded cheddar cheese (25g) Instant non-fat dry milk (25g) Shell eggs (25g) Raw beef trim (375g) Environmental swab (Stainless steel) Environmental sponge (Polystyrene)	Raw beef meat products (Fresh and frozen ground beefs, minced meat preparations, fresh and frozen beef trim) (25g) Raw milks and dairy products (Raw milks, raw fermented or acidified milks, raw milk cheeses) (25g) Vegetables (produces and leafy greens, RTE (deli salads), sprouts) (25g) Environmental samples (swabs, sponges, process and cleaning water, dusts) Composite foods and cooked deli meats (RTE, RTRH, Sliced beef, pork, chicken) (25g) Raw beef meat (seasoned or not) Raw pork meat (Chilled/frozen minced beef, beef preparations seasoned, chilled and frozen beef trim and pork. (25g) Pasteurized milk and dairy products (Pasteurised milk and milk cheese) (25g)

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Solus One ELISAs

The Solus One range builds on all of the advantages of the legacy Solus Assays by offering further distinct advantages to the laboratory. Firstly, the test time is reduced by 24 hours from the standard ELISA test kits meaning an even faster and more efficient workflow for samples with critical release criteria. The reduced time to result also means enhanced flexibility around resourcing for labs that often face challenges due to unexpected external factors. On top of this the Solus One workflow incorporates a single enrichment step which means a reduction in media prep time, consumable cost and also lab waste.



Solus One Salmonella



Solus One Listeria



Solus One E.coli



Solus Salmonella Supplement



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Validation – Solus One range

Listeria		Salmonella		E. coli O157
PTM (AOAC)	ISO 16140 (AFNOR)	ISO 16140 (AFNOR)	OMA + PTM (AOAC)	PTM (AOAC)
PTM 051802	37/06-10/23	SOL-37/04-12/18	PTM 101801	PTM 112001
Environmental swab (Stainless steel) Environmental sponge (Polystyrene) In progress awaiting certification	Composite foods / Ready-to-eat and ready-to-reheat. Confectionaries, pastries and egg products (25g)	Composite foods (RTE, RTRH, pies, quiches, pizza) (25g)	Raw salmon fillet (25g)	Raw ground beef (375g) Raw beef trim (375g)
	Meat products Raw products (frozen or fresh), Meat based products ready to reheat, Raw and cooked delicatessen (25g)	Heat processed milk and dairy (Pasteurized milk, milk cheese and milk based products, Dehydrated products, Infant formula) (25g)	Shredded cheddar cheese (25g)	
	Milk & dairy products, Raw milk cheeses, Other products based on raw milk, Heat treated products (25g)	Egg products (Liquid egg, powder egg, *egg based products) (25g)	Bagged romaine lettuce (25g)	
	Vegetables, Raw products (fresh and frozen), Pre-cooked vegetables, vegetables under modified atmosphere, RTE (25g)	Meat products (raw meat products including frozen non frozen seasoned pork beef lamb, raw poultry products including frozen non frozen seasoned chicken turkey, Cured products) (25g)	Non-fat dry milk powder (375g)	
	Seafood and fishery products, Raw products (fresh and frozen), Cured & smoked, RTE, Ready to reheat (25g)	Petfood (Dry finished products including kibbles, pellets for dogs and cats, granules for rabbits, hamsters and guinea pigs. Wet finished products including terrines, sausages and balls) (375g)	Raw beef trim (>30% fat content) (375g)	
	Environmental Samples, Dusts and Residues, Cleaning and Process Waters, Surface samples	Vegetables, fish and seafood products, Raw, frozen and cooked processed fish and seafood, Fresh Bagged leafy greens : baby leaves, sprouts, fresh herbs, Raw and frozen processed vegetables : cut fresh vegetables (mixed or not), frozen vegetables mix (25g)	Pasteurized liquid egg (100g)	
			Paprika, black peppercorns, cinnamon (25g)	
			Honey mustard onion seasoning & flavored ranch seasoning (375g)	
			Cocoa powder (375g)	
			Cocoa liquor (375g)	
			Milk chocolate bar (375g)	
			Stainless steel	
			Plastic (polystyrene) environmental surface	

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Solus Automation

The DYNEX DS2® is a compact and fully automated open system that can manage every stage of sample processing, from incubation and washing to data reduction. Run assays from Solus Pathogen System.

- Two 96-well plates that equals up to 192 tested samples in a single automation.
- Two protocols can be run simultaneously for optimum efficiency.
- Data upload as soon as the automation finishes (LIMS).
- Multi Language operation.
- On screen step by step instructions.
- Minimal training needed to start testing,
- One technician can operate up to three DS2 machines in a single working day.
- Small work bench space required – 4 square feet of counter space.



DYNEX DS2

Manage every stage of sample processing, from incubation and washing to data reduction.

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Solus Washer and Reader

New! Solus equipment to help automate your ELISA workflow.

Introducing the Solus automatic plate washer and reader to use in conjunction with your choice of kits to ensure fast accurate results. Talk to us today about results you can trust from a team that cares.

Solus Plate Washer

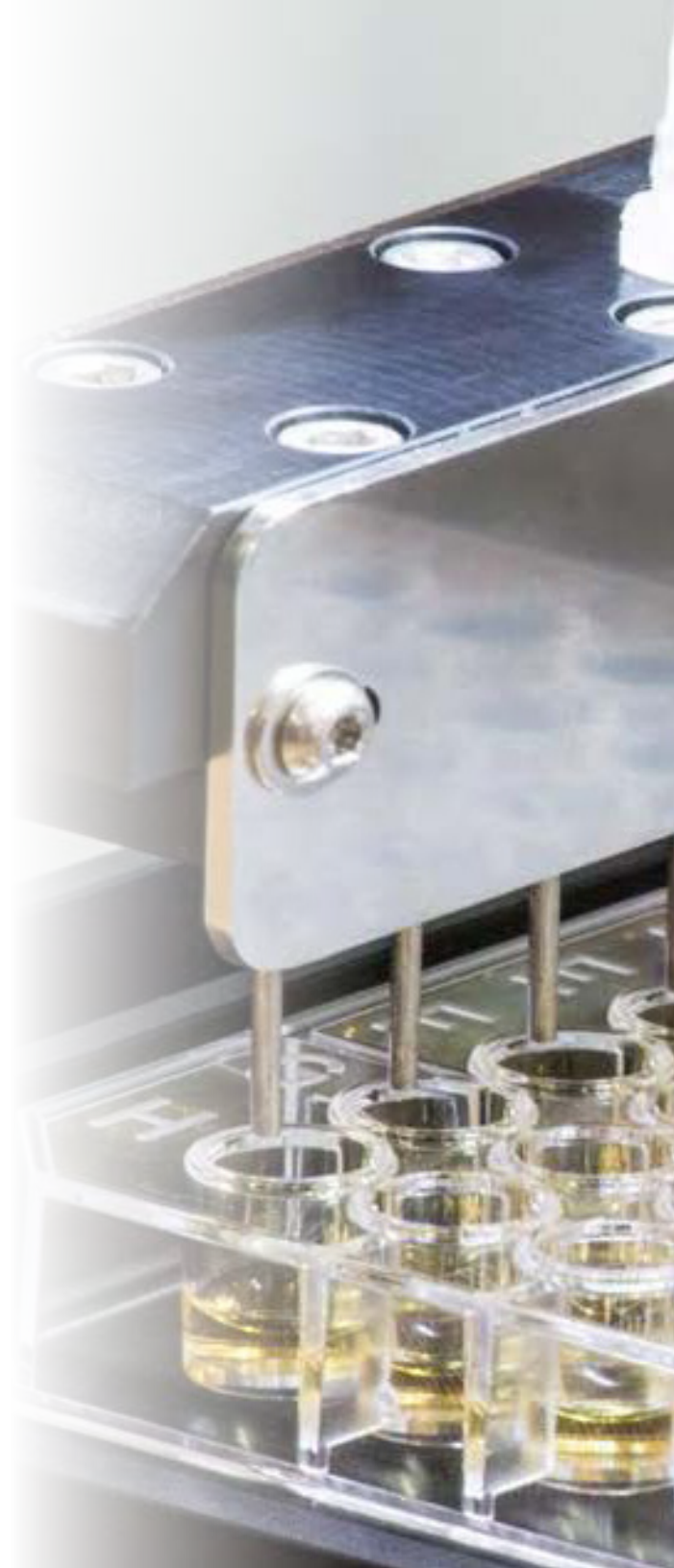


- Small compact design
- Easy to program
- Cost effective
- Saves time
- Reduces errors

Solus Plate Reader



- Absorbance microplate reader
- Long-life, reliable LED light source
- High-speed 12-channel reading
- Compatible with multiple softwares



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Listeria ID

The Solus Listeria ID kit is has been designed for ease of use and clear result interpretation. The kit, unlike others on the market , is based on an eight well microstrip design meaning fewer results to interpret whilst maintaining the performance you need to get the right results.

The Solus ID kit not only allows the clear identification of the conventional *Listeria* strains: *Listeria spp.*: *L. monocytogenes*, *L. innocua*, *L. seeligeri*, *L. ivanovii*, *L. welshimeri*, *L. grayi*. but adds to this the additional strains that are included in ISO 11290-1:2017: *Listeria spp.*: *L. marthii*, *L. weihenstephanensis*, *L. fleischmannii* and *L. rocourtiae*.

The kit is further enhanced by the provision of dedicated online software whichfurther simplifies the process for the user and also allows your data to be stored in the cloud of downloaded to you laboratory management tool.

Solus *Listeria* ID kit simplifies current methodology by the reduction in required substrates, includes all reagents within the kit, delivers performance certified by the ISO16140-6 and can be selected by any laboratory wanting an improvement on thier current solution.

Features

- Fewest reagents of any test
- Simplest software
- Only Listeria kit to have achieved 16140-6 validation

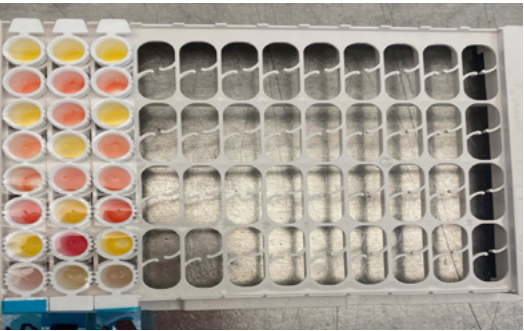


Solus Listeria ID

Test Reactions

Sugar Metabolism (Rows A-G)	Interpretation	Haemolysis Test (Row H)	Interpretation
Red	Negative	Deposited Red Cells (No Haemolysis)	Negative
Orange	Negative	Pellet with partial haemolysis	Positive
Yellow	Positive	Complete Haemolysis	Positive

Kit Reactions



Test Strips

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Providing Testing Solutions

PerkinElmer can provide integrated test solution for clients in the field of **Dairy, Grain & Feed, Seafood, Meat, Eggs, Honey.**

Offer an integrated solution from
Testing to Confirmation

Lateral Flow kits ▼

Raw materials and
On-site collection



Simple operation
On-site detection

ELISA Test kits ▼

Production monitoring/
Inventory monitoring



High sensitivity
Batch processing

Lab Confirmatory Test ▼

Positive samples confirmation/
Supervision spot-check



International standard method
Confirmatory test

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Auroflow

AuroFlow™ lateral-flow test kits are a fast, portable testing solution that uses specific antibodies to detect mycotoxins and histamine in food, and antibiotics in raw milk providing results in minutes. They're easy to use, cost-effective, and require no specialized equipment; can be used in the lab or In the field; and deliver quick, reliable results for timely decision making.

- Quantitative lateral flow assays for the detection of total aflatoxin, DON, Fumonisin, Zearalenone, Ochratoxin A, and T-2/HT-2 in grain commodities such as corn and wheat.
- Quantitative lateral flow assays for the detection of histamine.
- Quantitative lateral flow assays for the detection of antibiotics in raw milk.



AuroFlow lateral-flow test kits



QuickSTAR™ Horizon™ strip reader

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MaxSignal

The automated solution from PerkinElmer provides food safety QA managers and lab managers in the aquaculture industry fast and simple shrimp testing by combining the power of automation and user-friendliness into a single solution.

PerkinElmer has developed a single extraction method that can be used in 5 different ELISA kits to detect antibiotics in shrimp with liquid reagents that come ready to use out of the box.

Our solution significantly decreases hands on time with samples and brings results to the technician faster than any other product on the market with the ability to process up to 192 samples in less than 90 minutes.

The automated ELISA system integrates seamlessly with your laboratory by automatically downloading results and interpreting data. The system also brings enhanced traceability to any QA program by scanning in samples and connecting to LIMS where applicable

Our sensitive, highly specific MaxSignal® ELISA kits use antibodies to bind and quantify mycotoxins, histamine, and antibiotics in dairy, grain, meat, seafood, and beverages. They have a wide dynamic range, are cost-effective, and are easy to use in laboratories or on-site for rapid detection. Plus, they're manufactured to the international ISO 9001 quality standard.



MaxSignal



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Immuno Affinity Columns

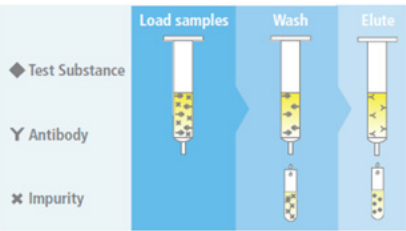
PerkinElmer Immunoaffinity columns use the highly specific combination between antigen and antibody to purify and enrich the target substance. The specific antibody preset in the column selectively binds the target substance in the sample, and the impurities are not bound and flows out of the column. The target substance bound on the column then is eluted with eluent, so as to achieve the high-efficiency purification and concentration of the target substance.

Features

- High sensitivity
- High specificity
- Good recovery rate up to 90-110%
- High sample loading capacities
- Fast flow rate
- Easy-to-Use
- Safe and environmentally friendly



Immuno Affinity Columns



IAC Workflow

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Quickstar

The patented QuickSTAR™ Horizon™ strip reader is a robust handheld lateral flow-testing system that delivers more accurate qualitative and quantitative results. The device's cutting-edge technology allows fast, easy retrieval of outcomes in seconds, increasing testing throughput and efficiency. Its user-friendly interface enables seamless navigation through the preprogrammed test types, while its rechargeable battery ensures uninterrupted operation.



QuickSTAR
HORIZON



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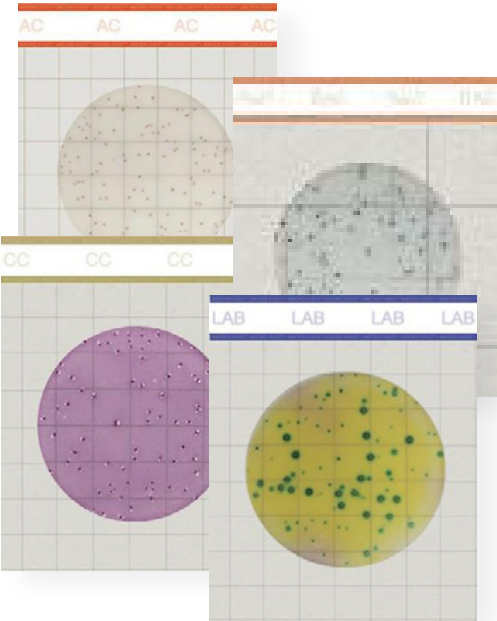
Microfast

MicroFast™ microbiological count plates offer a more efficient alternative to traditional enumeration testing methods, requiring minimal storage space and generating less waste, resulting in reduced costs. They're a reliable option certified by AOAC to PTM with a long shelf life of 18 months. They feature:

- Rapid diffusion technology: Sample dilution quickly spreads on the count plate without pressing the plate.
- Self-developed microorganisms growing technology: Growth of microorganisms is easy even under strict growth conditions, leading to precise and consistent results.
- Enzyme substrate color reaction: This product design allows for an easy and direct interpretation of results.

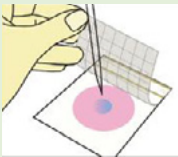
Product List

Product Code	Count Plate	Specification
FS-LR1301	Aerobic Count Plate	25T/Package
FS-LR1302	Coliform Count Plate	25T/Package
FS-LR1303	Yeast & Mold Count Plate	25T/Package
FS-LR1305	Staphylococcus aureus Count Plate	25T/Package
FS-LR1307	Coliform & E. coli Count Plate	25T/Package
FS-LR1311	Enterobacteriaceae Count Plate	25T/Package
FS-LR1312	Lactic acid bacteria Count Plate	25T/Package
FS-LR1321	Rapid Aerobic Count Plate	25T/Package

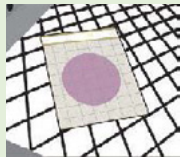


Microfast Plates

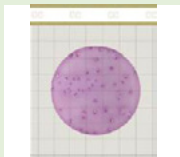
Microfast Plates Workflow



Inoculation



Incubation



Interpretation

Certificates



AOAC-PTM
certificates acquired.

More in Development

Bacillus cereus
Salmonella and Listeria
plates.

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DASH Kit

Antibiotic residues in dairy products are a global concern due to its negative effects of abuse. If you are a farmer, how can you safeguard your raw milk against this problem in a cost-effective, accurate, reliable and user-friendly way while also adhering to EU Regulation, DASH Test Kit may be your best choice!

DASH Test (Dairy Antibiotics Spore High-throughput Test) can qualitatively detect more than 60 antimicrobial drugs from 8 groups in raw milk at or below the EU MRLs, including cattle, sheep, and goats. The product is based on the microbial inhibition assay which can use for a large volume screening of raw milk for farmers. It is the ultimate early warning method that helps farmers prevent milk loss by screening most major antibiotics in a single test.



Dash Test Kit



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ATP Monitoring – PureTrust

Widely used for health care products, cosmetics, pharmaceuticals, food and catering companies, health supervision, hospital or testing organizations and government regulatory authorities.

PureTrust™ ATP Intelligent Hygiene Detection System is consisted by Intelligent.

Fluorescence Detector and Surface Swabs. Based on the principle of firefly luminescence, the system utilizes luciferase-luciferin's reaction system to quickly detect adenosine triphosphate (ATP) to monitor the hygiene status.

Features

- Portable
- Easy to use
- Friendly UI
- PureTrust is CE certified



PureTrust ATP Intelligent Hygiene Detection System

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PerkinElmer SOLUS Support



- Remote Demos
- Lab Demos
- Trial programme support
- Validation support
- Installation
- Remote or onsite Training
- SOP and report writing
- Ongoing application and technical support
- Onsite engineers within 48 hours (same day remote)

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For more information visit www.perkinelmer.com

PerkinElmer U.S. LLC
710 Bridgeport Ave.
Shelton, CT 06484-4794 USA
(+1) 855-726-9377
www.perkinelmer.com



For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs

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