



# Solutions for Microbiological Testing in **Food Safety**



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## Sponge Swabs

Combining a biocide-free cellulose sponge with a handle to avoid potential contamination of the sample that can influence test results, **3M™ Sponge-Stick** is a sponge you can rely on. The sample integrity will be intact and well protected and can be homogenised directly inside the durable triple laminate bag, saving time and costs.

- Biocide-free cellulose sponge maintains organism viability
- Reduces risk of sample contamination as no direct handling of the sponge
- Long, blue coloured handle for better visibility and reach in the production area
- Available with 10 ml Neutralising Buffer, Buffered Peptone Water, Letheen Broth or as a dry swab for use in different testing procedures

## Scrub Samplers

The new Environmental Scrub Sampler with 10 ml Wide Spectrum Neutraliser is an innovative solution for collection of environmental samples for microbiological applications. It effectively neutralises commonly used sanitisers and allows for up to a 96-hour sample hold-time. The stick is designed to be ergonomic and metal-detectable and features a convenient 1-step detachment for ease of use.

- Multi-layered non-woven composite material designed for superior pick-up, release, and absorbance
- Scrub dot technology to disrupt biofilm and enhance sample collection
- Effective neutralisation of high acid cleaners, hydrogen peroxide and peroxyacetic acid-based sanitisers

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## Swab Samplers

Environmental testing is made easy and convenient with our Swab Samplers with Buffered Peptone Water or Letheen Broth to retain and recover microorganisms.

- Ideal for sampling hard-to-reach areas with long, pre-hydrated 9 cm swab
- Premeasured fill volumes allow for quick calculations with quantitative testing
- Blue sticks are easy to detect if dropped onto the production area or floor
- Can stand alone or fit into a standard test tube rack



## Copan SRK®

Copan SRK® (Swab Rinse Kit) for the detection of environmental microbial contamination can be used for routine surface monitoring within numerous environments by inspectors and quality assurance personnel. A wide range of swab types allow SRK® to suit various applications.

- Effective sample collection on various surfaces
- Enhanced preservation – Isotonic solution or various enrichment and Letheen broths
- Contamination and spillage while transporting avoided due to screw cap
- Simplifies testing in lab due to sample already submerged in a diluent

## LIQUID AND SOLID SAMPLING SYSTEMS

### Powder Thief

This sterile, disposable Powder Thief is ideal for taking representative samples from known locations within the bulk powder. These samplers are available in three convenient lengths and six sample volumes.

- Assembled & packed in a cleanroom
- Individually Bagged
- Made from FDA and EU-conforming HDPE
- BSE/TSE Free
- Full batch traceability
- Available as gamma irradiated sterile (SAL 10<sup>-6</sup>)
- Cross-contamination risk is eliminated - the device can be used straight from the bag.
- No cleaning required before or after sampling.



### Grain Spear

The spiral position of the pockets gives superior sampling results. The bottom pocket opens and fills first, giving a more representative sample. Suitable for larger powders, granule and grain sampling. The tip is fixed permanently and cannot be lost.

- Made from lightweight aluminium for easy operation and handling
- The sampler is manufactured so that it can be stripped and cleaned within seconds.

### LiquiThief

The LiquiThief is ideal for sampling low viscosity liquids, suspensions and thin oils. Each sampler is individually bagged, and they are designed to be used straight from the bag.

- All the polymers are food grade, FDA grade and EC compliant. BSE/TSE free. Batch certificates are available.
- 3 lengths available in both sterile and non-sterile.
- Available in both HDPE and PP construction
- **Unique benefit: Special FDA grade silicone seal is used. This gives superior sampling action. It also prevents the sampler from dripping between use.**





## Water Purification Systems

The Purite Analyst water purification system provides a consistent supply of purified water to a quality better than 1 MΩ.cm. This quality of pure water is ideal for applications such as glassware rinsing, buffers and stains, reagent makeup, and media preparation.

- Guaranteed < 1 MΩ.cm water quality
- Intuitive design
- ECO option with up to 50% water recovery
- Wi-Fi compatible option available



## Dehydrated Culture Media

We supply high-quality culture media and associated microbiological testing solutions in a variety of formats to suit your laboratory's needs.

- > 300 media, diluent, broth & supplements available
- Selection of media covers all organisms relevant to the food industry
- Available in various pack sizes: 500 g, 5 kg, 10 kg and 25 kg
- Compliance with global reference methods and standards across multiple industries



## Petrifilm

Keep up with the continuously changing global food safety landscape with the help of Petrifilm™. High-volume testing can be achieved speedily and proficiently improving time management and providing faster turn-around-times on laboratory test results.

- Used to enumerate and detect organisms relevant to the food industry
- Ready-to-use (reduce or eliminate) time-consuming agar preparation
- Proven testing methods for consistent, reliable results
- Compact size uses less storage/incubator space



## NBB® Nutrient Media for Beer-Spoiling Bacteria

The NBB® portfolio comprises solid and liquid media to provide the ideal detection solution for all samples throughout the entire brewing process. The discovery of specific growth promoters ensures that even bacteria with very slow growth can be safely detected within a short period of time, while a balanced system of inhibitors suppresses the dominating yeast culture.

- Ready-to-use nutrient media
- Rapid growth through special growth promoters
- Incorporation of pH colour indicators
- Formats for all occurring sample matrices



## Autoclaves

Our range of laboratory autoclaves can be used to decontaminate biohazardous waste, sterilise laboratory equipment and when preparing culture media for microbiological testing.

- Complies with local and international Pressure Equipment Directives and standards
- User-friendly control panel
- Equipped with various safety features
- Accessory options include baskets, printers, temperature sensor and many more according to specific user requirements

## Media Preparators

Our automatic media preparators provide the ability to produce all types of media, broths and dilution fluids quickly and accurately. With capacities from 1 litre to 50 litres and high temperature accuracy, these instruments can increase productivity, quality, repeatability, and traceability. This system enables you to flexibly produce media regardless of the formulation being prepared.

- Guarantees sterile media preparation ensuring media performs as prescribed
- Temperature monitoring (+/- 0.5°C) directly inside the medium
- Continuous stirring during preparation and dispensing
- All in one unit: sterilizer, homogenizer, water-bathing, and traceability



## Petri Dish Filler

This automatic Petri dish filling and stacking machine allows you to prepare up to 440 plates (15 ml) within 30 minutes. With its integrated peristaltic pump, the medium is poured precisely and evenly into the plates. The built-in Peltier cooler prevents condensation and speeds up solidification time, thus ensuring a consistent quality of the prepared plates. The peristaltic pump and the loading system are located at the front of the device for easy, ergonomic access.

- High production throughput
- Consistent & reliable pouring
- Compatible with most Petri dishes
- Prevention of unwanted contamination due to human error

## Sample Bags

Our homogeniser sample bags are strong enough to endure even solid and semi-solid samples.

- Large 180 mm x 300 mm, 400 ml bags that will work for most microbiological testing methods
- Thick 3 mil polyethylene for toughness
- Additional additive for increased elasticity
- Extra wide 4 mm heat seal designed to prevent leaking



## Balances

Our wide range of balances offers easy and intuitive weighing operation, clear menu and practical arrangement of the displays guaranteeing the best ergonomics for your everyday laboratory weighing tasks. A wide array of available interfaces facilitates selection of the most optimal means for communication. Features includes: Data integrity, user management, formulation and report exporting.

## Peristaltic Pumps

This multifunctional, compact peristaltic pump provides a quick and accurate way of filling vessels with liquids. It can fill 9 ml in just one second; 18 ml in 3 seconds and, a total of 225 ml in 10 seconds, all with an accuracy of +/- 0.6 ml.

- Manual, automatic or footswitch distribution
- Adjustable volumes between 0.1 ml to 9999 ml
- 20 customisable pre-installed programs



## Homogenisers – Lab Blenders

Our range of laboratory bag blenders allows for easy and effective processing of multiple food samples, without the risk of cross-contamination.

- Offering a volume sample range from 250 µl to 4500 ml
- Highly durable and reliable, blending solid or liquid samples with ease
- Programmable process times and paddle speeds to assist with all microbiology methods' homogenising requirements
- Digital control panel for quick and easy adjustments
- Easy to clean and sterilise
- Designed for continuous use to assist with high-volume testing



## Biological Safety Cabinets

We have a range of biological safety cabinets which provide product, personal and environmental protection from pathogenic microorganisms and other infectious agents.

- EN 12469 and NSF49 certified options available
- LCD screen displays various parameters and real-time operational conditions
- Multiple audible and visual alarms
- Intelligent constant airflow velocity sensor
- HEPA and ULPA filter combinations
- Height-adjustable base stand and UV light available



## Laminar Flow Benches

We have a range of laminar flow benches to provide a sterile work environment to protect your sample from contamination.

- HEPA-filtered air for a particle-free working environment
- Available in both horizontal and vertical airflow configurations
- LCD for workstation performance
- UV lamp emission of 253.7 nm for the most efficient decontamination
- Bright and open working environment optimized by LED illumination
- Configurable options such as polypropylene work surfaces, outlets, service valves, and base stands available

## Incubators

The Memmert incubators are perfect for all applications related to the Microbiological sector of the food safety testing industry. During the heating process, the temperature is increased within a very narrow control range and kept exactly at the target value. A pre-heating chamber heats the supplied air and avoids temperature deviations.

- Compressor and Peltier cooled versions available for work-in-progress storage
- Can be programmed to heat and cool at any given time to ensure the analysis continues as prescribed while unattended.
- Available as Natural convection or Forced air circulation
- TwinDisplay (PLUS) models include software that allows the user to set up ramping programs.
- Perfect interaction of all-round heating with temperature control for optimal heat distribution even without a fan



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## Whitley Incubation Box

This rectangular, transparent and stackable anaerobic 'jar' can be used to create the perfect environmental conditions for the isolation and cultivation of anaerobic and microaerobic organisms, and for cell culture applications.

- Accommodates both Petri dishes and multi-well plates.
- Both lids and bases can be nested for storage.
- Flexibility to create different atmospheric conditions.
- Rectangular shape saves space in the incubator.
- Durable and lightweight.



## Filtration Manifolds

- Full package filtration systems available
- 1,3 and 6 place manifold options
- Stainless Steel or Glass funnel options in various volumes
- Various column options for any filtration requirement

## Water Activity Meter

Take the guesswork out of food safety and shelf-life testing with the Steroglass Waterlab Water Activity Meter. With state-of-the-art features including a dew point sensor, measurements of free water in products to determine its potential for microbial growth, can be achieved in 5 minutes or less.



## Waterbaths

- Digital
- Temperature range up to +95°C
- Optional Peltier cooling unit available to achieve temperatures as low as 10°C
- Optional shaking device available



## Cryopreservation Beads

- Long-term storage of micro-organisms at low temperatures
- 80 tubes per box with 20 each of green, blue, red and yellow caps to aid categorisation
- 20 ceramic beads covered in a cryopreservative solution per tube



## Colony Counter

The CC200 has an automated counter, activated using a simple felt pen. The 1.7 x magnifying lens that comes with the unit enables food microbiologists to count all relevant colonies on a Petri dish.

## Automated Colony Counter

Digital and automated colony counters from Symbiosis suit the needs of both high and low-volume food laboratories.

Counting features:

- Total Plate Counts
- Gridded Filter Paper – Water Samples
- Chromogenic Media Counts
- Pour plates
- Spiral plates
- Streak plates
- Species identification
- Large plates (up to 150 mm)
- Dilution series plates



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## Petrifilm Reader

The **3M™** Petrifilm Plate Reader Advanced is a compact instrument that automates the enumeration of 11 different **3M™** Petrifilm Plates to enhance laboratory productivity and ensure accurate, consistent readings. **3M™** Petrifilm Plate Manager Software is included for data analysis.

- Interprets Petrifilm and gives a result within 6 seconds
- Artificial intelligence continuously learns to produce accurate results
- LIMS software compatible

## Microscopes

For the examination of organisms at a microscopic level, our wide range of microscopes can be used for various applications. They enable laboratory technicians to easily identify morphology, movement and gram stains. Our wide range of digital cameras provide enhanced viewing with image and video capture and allows for measurements of samples using user orientated software.



## Molecular Detection System

The pathogen testing process is simplified with the advanced technology of the **3M™** Molecular Detection System. Save time and labour costs with ready-to-use reagents, a single protocol for all pathogens and same- or next-day results.

- Simplified workflow with only 2 transfer steps
- Up to 96 samples in each run
- LAMP technology provides more control at each step.
- Third-party validations by AOAC®, AFNOR, FDA and USDA



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## ATP Testing - Luminometer

Our innovative 3M™ ATP testing solution provides you with stable, consistent results in real time to help you ensure hygienic environmental conditions to produce safe products. Being able to find and eliminate risks in your cleaning process immediately is critical in preventing issues with products at a later date.

- Ergonomic design allows for simple, one-handed operation
- Quickly determine if a surface has been cleaned sufficiently.
- Immediate corrective action can be taken if needed
- Analyse your performance over time with intuitive software.



## Surface Protein Test

Protein swabs are a simple and reliable method of checking for the removal of protein residues after cleaning and quickly indicates presence of contamination.

- Detects as little as 50 µg of protein on surfaces
- Results within 10 minutes allows corrective action almost immediately
- Visual reading of a colour change shows the presence of detectable levels of protein
- No instrumentation is required

## Allergen Testing

3M™ have developed a range of allergen-specific and non-specific tests to give you full control over your allergen testing program. The range includes Enzyme-Linked Immunosorbent Assay (ELISA) kits for outstanding precision, Rapid Lateral Flow kits for fast in-plant monitoring, and easy-to-use Surface Protein Swabs for monitoring the presence of total allergenic proteins on surfaces to verify the effectiveness of cleaning.

- Accurate detection of processed and unprocessed target allergen proteins
- Use for clean-in-place (CIP) final rinse water, environmental swab samples, food ingredients and processed food products.
- Validated for a range of allergenic proteins such as egg, milk, soy, fish, nuts and more
- Qualitative and quantitative options available

### ELISA

**Limit of quantification:** 0.3 – 2 ppm  
**Results in** 50 – 65 minutes



### Rapid Lateral Flow

**Limit of detection:** 0.5 – 5 ppm  
**Results in** 11 minutes

### Surface Protein Swabs

**Limit of detection:** 3 µg  
**Results in** 15 minutes



## General labware also available:



Inoculating Loops



Media Bottles



Vacuum Pumps



Bottle Top  
Dispensers



Hot Plates and  
Magnetic Stirrers



Vortex Mixers



Filter Paper and  
Membrane Filters



Parafilm



Spatulas and  
Weighing Boats



Gloves



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