

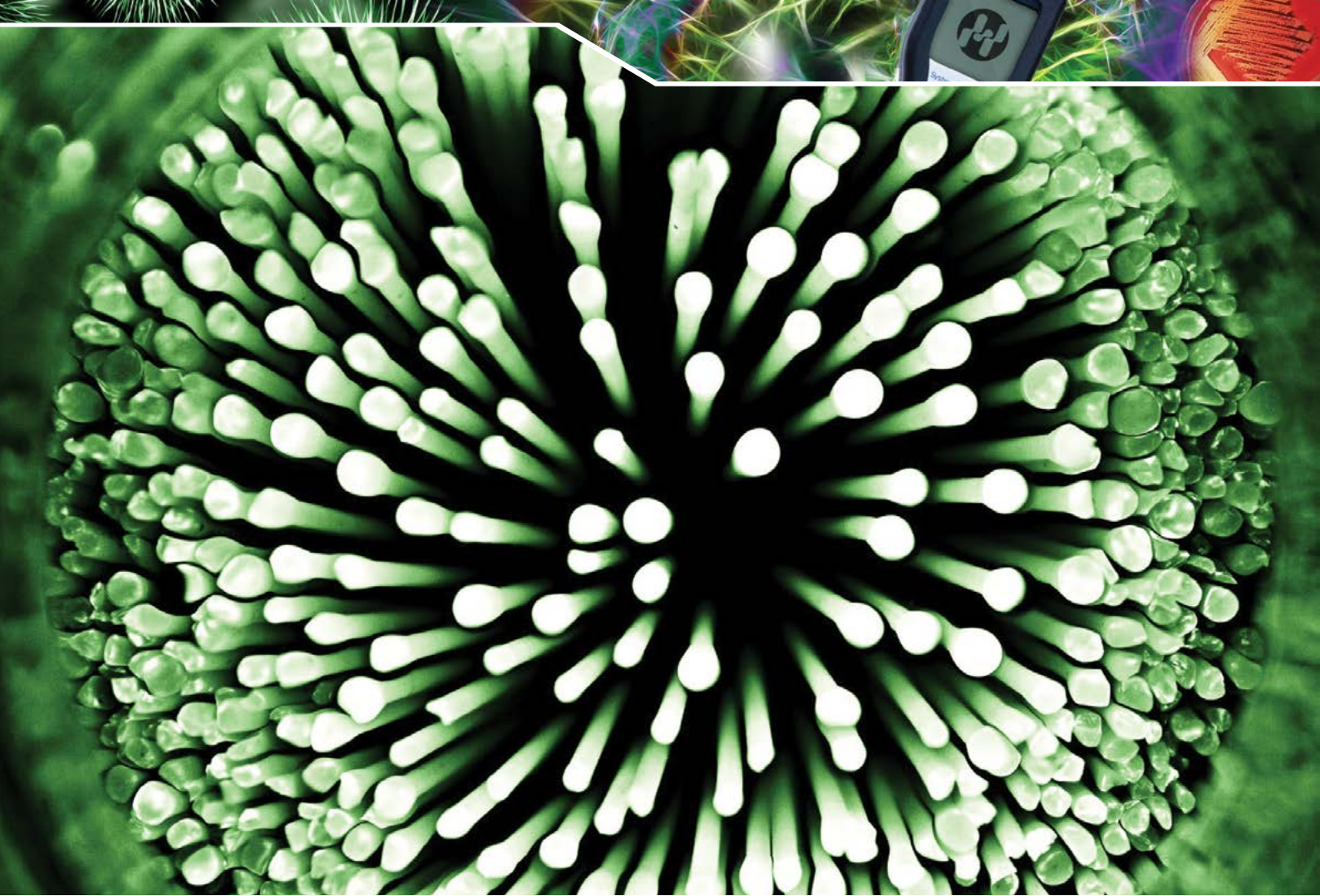


## Food and Beverage Safety Guide



Selection of products for optimum hygiene practices in F&B production





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HyServe



## Compact Dry – An easy test method for counting Micro-organism

Compact Dry is a ready-to-use test method which helps to reduce the time needed to perform microbial testing. Therefore, it allows maximum productivity by increasing efficiency. The plates can be used to test raw materials as well as finished products like food, beverage, meat, cosmetic or other samples. The Compact Dry plates can also be used as a contact plate for difficult areas using the Compact Dry swab.

Compact Dry is an easy-to-read results test method. Place 1ml of sample onto the plate. The liquid samples will self diffuse evenly over the whole plate. Incubate the plates at the temperature specified in the package inserts. The grown colonies are pigmented with different colors, developed by chromogenic substrates and redox indicators. The type of bacteria is identified by its colour. For further investigation bacteria can be easily selected.

Product	Incubation time	Incubation temperature
Compact Dry CF for coliform	18 – 24 hours	35 ± 2° C / 40 – 42° C for faecal coliforms
Compact Dry EC for E. coli and coliform	24 hours	35 ± 2° C
Compact Dry ETB for enterobacteriaceae	24 – 48 hours	35 – 37° C
Compact Dry ETC for enterococci	20 – 24 hours	35 ± 2° C
Compact Dry SA for Staphylococcus aureus	48 hours	35 – 37° C
Compact Dry SL for salmonella	20 – 24 hours	41 – 43° C
Compact Dry TC for total count	48 hours	35 ± 2° C* (20 – 42° C)
Compact Dry TTC for total count in tea products	48 hours	35 ± 2° C
Compact Dry VP for Vibrio parahaemolyticus	18 – 24 hours	35 – 37° C
Compact Dry YM for yeast and mold	3 – 7 days	25 – 30° C

\* It is recommended to use the incubation temperature/time according to the legal specification of Australia's food analysis regulations.





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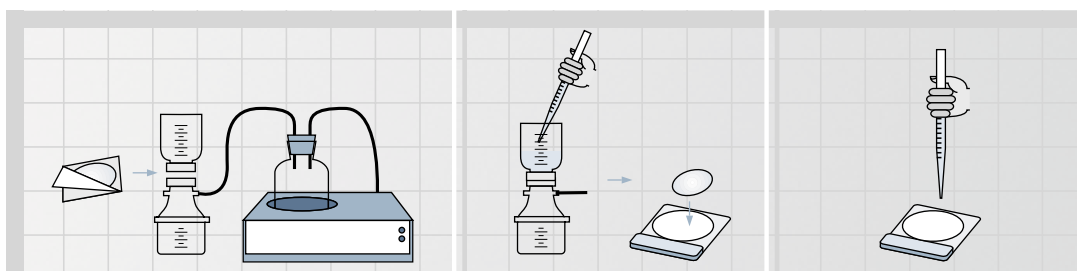
Compact Dry is also an easy-to-store test method. The plates can be kept at room temperature for up to two years and can be used over an incubation temperature range of 20 – 42° C.

Compact Dry is a very safe and convenient product. Its rigid structure allows for easy transportation and an unlimited number of units can be stacked safely in an incubator. The risk of contamination of the medium is eliminated by using the covering lid.

Additionally membrane filters can be tested using Compact Dry plates. Filter 100 ml water or any other liquid using an ordinary membrane filter (e.g 47 mm, 45 µm), then pipette 1ml of sterile water into the middle of the Compact Dry plate and place the filter on the Compact Dry plate. The filter should be trap side up. Colonies will grow on the filter.

### Membrane filter method: procedure for Compact Dry

- Take out a Compact Dry TC plate, take off the cap of a plate, pipette 1mL of sterile water in the middle of dry sheet.
- Open a package of sterilized filter and pick up a sterilized membrane filter with sterilized tweezers.
- Remove the funnel of sterilized filtering device and set a sterilized membrane filter.
- Set the funnel, pour the sample water in the funnel and filter the sample water under reduced pressure.
- After the filtering sample, wash the inner surface of funnel with 20 – 30 ml of sterile water and filter it. Repeat the same steps two or three times.
- Detach the funnel and take the membrane filter out with sterilized tweezers. Put on the filter on the prepared Compact Dry TC plate without bubbles. The trap side is upper.
- Turn over the plate capped and put in an incubator for incubation under the prescribed condition.





# HyServe

## Features and benefits

Compact Dry combines the features and benefits of the traditional plate media with the modern features of dehydrated film media.

This unique combination will shorten your test time and increase your lab efficiency, thus reducing your costs.

Steps	Criteria	Homemade plates	Prepared plates	Other dehydrated films	Compact Dry
Preparation and storage	Ready to use		■	■	■
	Long shelf life RT				■
	Small size (for storage and disposal)			■	■
Inoculation (simple and fast)	Liquid samples	■	■	■	■
	Surfaces		■	■	■
	Easy handling (rigid plastic)	■	■		■
Incubation	Small size			■	■
	100% sterile (safe cover)	■	■		■
	Stackable	■	■		■
	No direct contact with media				■
Reading and interpretation	Easy counting (chromogenic)		■	■	■
	Easy picking and cloning	■	■		■
Validation	Standardization of the production		■	■	■
	Validation Approvals		■	■	■

## Approval

Compact Dry TC is AOAC validated with AOAC No. 010404

Compact Dry plates are produced at an ISO 9001 certified site

Compact Dry is ISO 16140 validated

Compact Dry TC is also approved by:

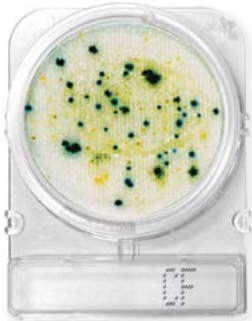
- Microbiological Methods Committee; Microbiology Evaluation Division; Bureau of Microbial Hazards, Food Directorate, Health Products and Food Branch, Health Canada; Ottawa, Ontario K1A 0L2
- Servico Publico Federal; Minsterio da agricultura, pecuaria e ae Astecimento; Brazil No. AUP/CGI/DIPOA No. 0453/2006
- The plates are submitted to Microval approval





# HyServe

## Compact Dry Range



### Compact Dry CF for coliform [Shop](#)

For the detection of coliforms Compact Dry CF is an easy tool.

Coliforms grow with blue/blue green colonies as the recipe contains the chromogenic enzyme substrate X-GAL.

The growth of bacteria other than coliforms is mainly inhibited but in case of growth they form colourless colonies. Compact Dry CF is AOAC approved.

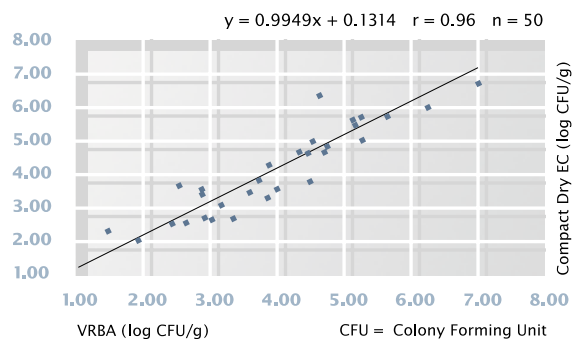
### Compact Dry EC (E. coli and coliforms) [Shop](#)

#### Bacteria form blue and red colonies

Compact Dry EC is a medium for E. coli and coliforms.

The medium contains two kinds of chromogenic enzyme substrates: Magenta-Gal and X-Gluc. E. coli forms blue colonies. The total coliform group count is the sum of both the red and blue colonies.

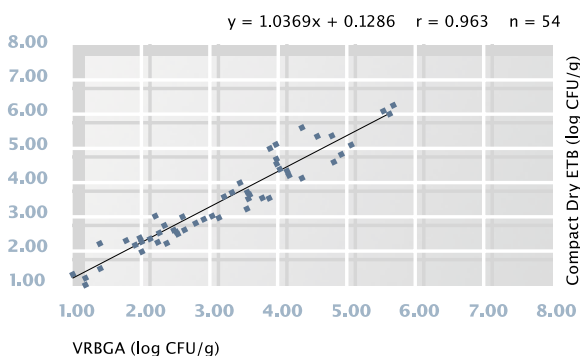
Regression line data from Compact Dry EC method plotted versus the conventional VRBA method (violet red bile agar) shows a good correlation per 50 food samples for the population of coliforms is shown. Compact Dry EC is AOAC approved.



### Compact Dry ETB for Enterobacteriaceae [Shop](#)

Using Compact Dry ETB it's very easy to detect Enterobacteriaceae.

It's substrates allows the easy differentiation of the Enterobacteriaceae from other groups.

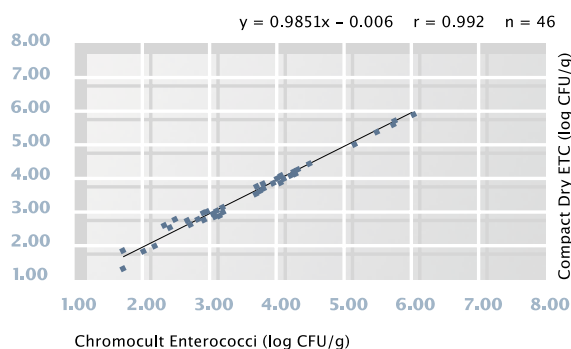
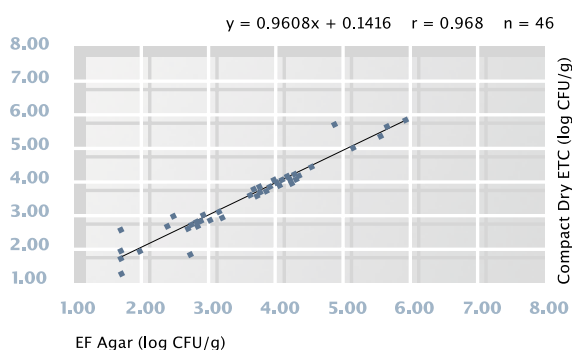


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### Compact Dry ETC is a new plate for easy detection of Enterococci in food and water [Shop](#)



Enterococci occur and grow in a variety of fermented foods. The presence of enterococci in food products has long been considered as an indication of poor sanitary conditions during production and processing. On the other hand, fermented foods containing enterococci, have a long history of safe use. It is also claimed that enterococci play an important role in the development of the organoleptic properties of the fermented foods. For water, the presence of enterococci serves as an indicator of faecal contamination. Enterococci in water can come only from faeces of human or animal origin. The Compact Dry ETC is based on the usage of X-glucoside (X-Gluc.) and antibiotics as selective agents. Enterococci will grow with blue to blue green colonies after an incubation for 24 hours at 37° C.

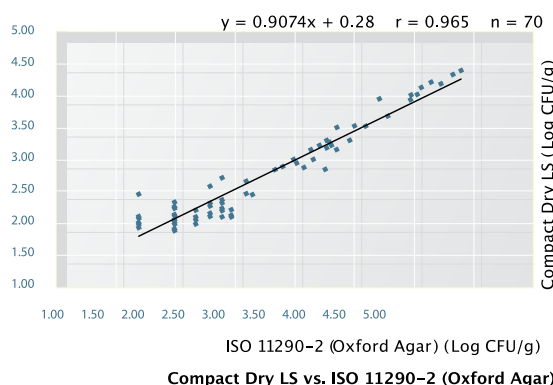
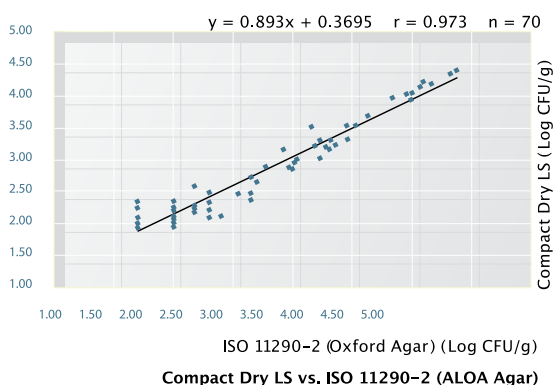


### Compact Dry LS, chromogenic plate for detection of Listeria [Shop](#)



Compact Dry LS is the simple way to detect contamination: After applying the sample (1 ml), the dehydrated Compact Dry LS plate becomes gellike. The sample self diffuses evenly. Further steps, for example manual spreading, are not required.

Compact Dry LS plates are incubated at 35°C or 37°C for 24 hours. Due to the chromogenic substances in the medium, Listeria grows as blue colonies with a diameter of between one and two millimetres. It is common knowledge that Listeria ivanovii grows very slowly and Listeria seeligeri is inhibited.





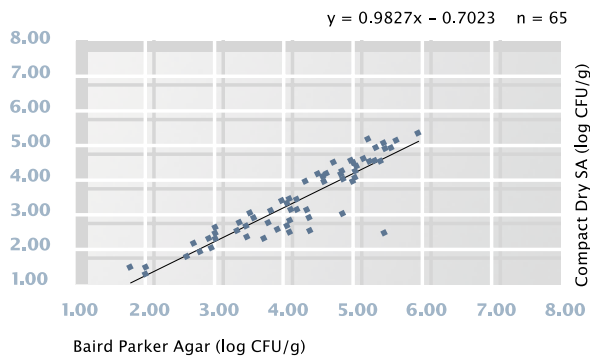
# HyServe

## Compact Dry SA for Staphylococcus aureus



Compact Dry SA is a medium used to determine Staphylococcus aureus by means of selective growth and differentiation by the egg yolk reaction.

This product consists of a Compact Dry SA plate which is based on improved mannitol salt agar. Staphylococcus aureus generates yellow pigments which result in light yellow colonies. The lipid-protein complex (lecithin) in the egg yolk reaction is split by lipase which changes the peripheral medium around the colonies to turbid white.



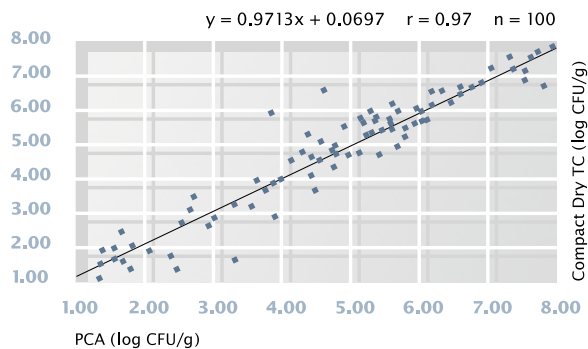
## Compact Dry SL for Salmonella [Shop](#)

Compact Dry SL detects salmonella using 20 – 24 hour pre-enrichment cultures. The plates are based on the combination of three different test principles: Allalization of the medium, by Salmonella's lysine decarboxylase ability(the medium colour will change from blue-purple to yellow); Greening of the colony, caused by decomposition of chromogenic substrate with a specific enzyme of Salmonella (black colonies are generated by hydrogen sulphide producing Salmonella); the motility of Salmonella.

## Compact Dry TC (Total Count) Bacteria form red colonies [Shop](#)



Compact Dry TC is a medium for total viable bacterial count, which contains nutrient standard agar. The colonies grown on Compact Dry TC are red due to redox indicator tetrazolium salt. Regression line data from Compact Dry TC method plotted versus the conventional PCA method (standard plate count agar) shows a good correlation per 100 food samples for the population of me-sophilic aerobic micro-organisms is shown.





HyServe



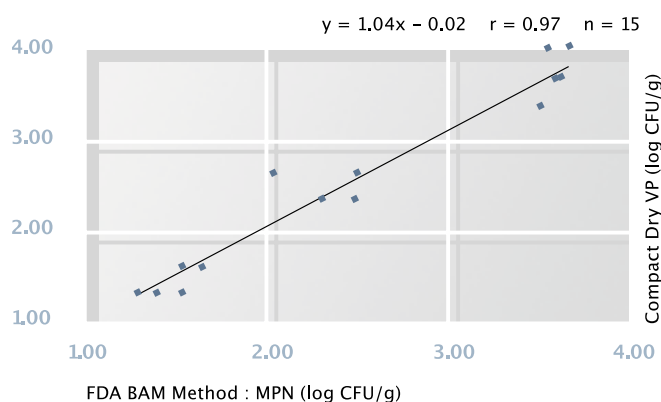
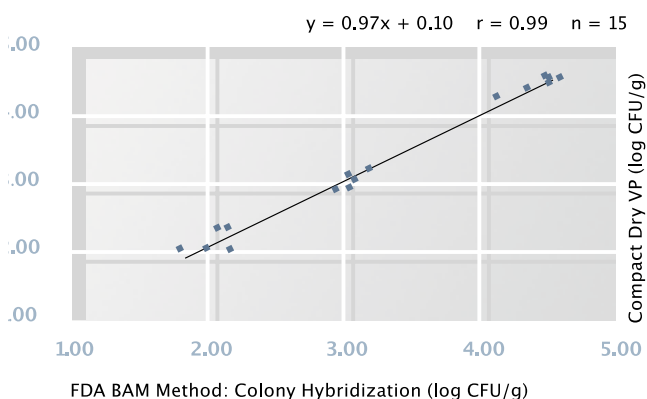
### Detection of lactic acid bacteria using Compact Dry TC

For the detection of lactic acid bacteria it is recommended to use Compact Dry TC. Samples should be diluted using sterilized saline and incubated under anaerobic conditions.

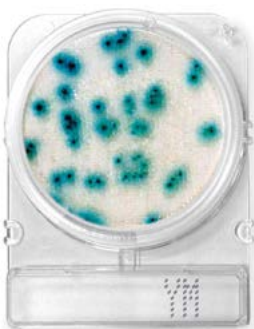


### Compact Dry VP for *Vibrio parahaemolyticus* [Shop](#)

*Vibrio parahaemolyticus* is a bacterium that can cause cholera. *Vibrio parahaemolyticus*-associated gastroenteritis is the infection caused by this organism. *Vibrio parahaemolyticus* naturally inhabits coastal waters and is present in higher concentrations during the summer; it is a halophilic, or salt-requiring organism. *Vibrio parahaemolyticus* is found in marine environments, sea foods, and the feces of patients with acute enteritis. Compact Dry VP can not only easily detect *Vibrio parahaemolyticus*, but also differentiate *Vibrio parahaemolyticus* from other vibrios. The product contains a specific chromogenic substrate for *Vibrio parahaemolyticus* which develops blue/green or blue colonies, whereas other vibrios develop white colonies.



### Compact Dry YM for yeast and mould [Shop](#)



With Compact Dry YM yeasts and mould can be differentiated by colour development. The medium contains the chromogenic enzyme substrate X-Phos which turns blue with many yeasts. Moulds form fluffy colonies with a characteristic colour. Antibiotics inhibit the growth of bacteria. The Compact Dry YM allows a very good 3-dimension growth of yeast and mould. Compact Dry YM is AOAC approved.



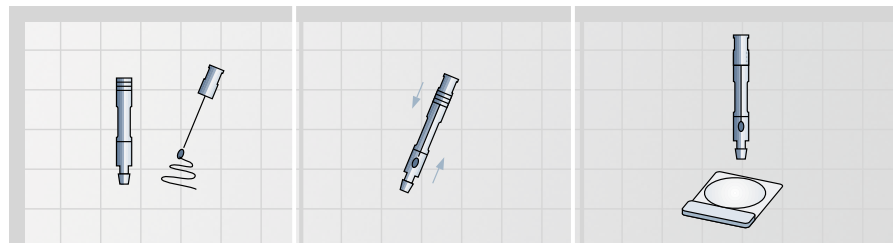
HyServe

### Compact Dry Swab for surfaces, meat and dry areas



Compact Dry Swab is a very easy to use tool for the sampling of difficult areas, swabbing food (e.g. meat) or checking dry surfaces.

- Screw out the Swab and wipe over your test area.
- Close the Swab and invert several times in order to release the micro-organisms into the liquid.
- To open, hold the swap by the orange area and invert. To release the sample press smoothly in the middle and 1 ml of sample will be dispensed onto the plate.
- The Compact Dry Swab contains 1 ml Peptone Buffered Saline.
- The Compact Dry Swab can be stored everywhere at room temperature up to 2 years.

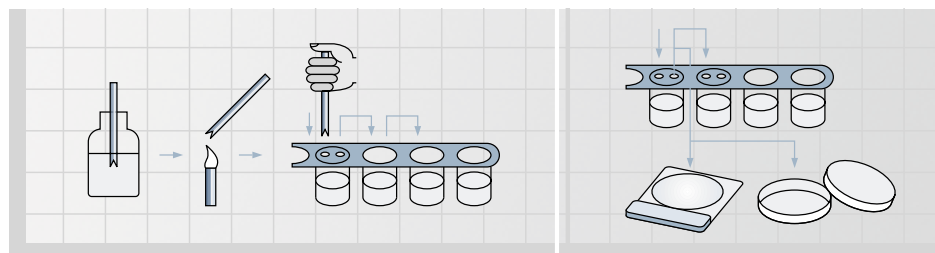


### Dilution rack for easy dilution seria and Opener



The Dilution Rack contains 4 wells of 9 ml sterile Buffered Sodium Chloride Peptone Solution. By pipetting 1 ml from one well to the next, it allows easy and fast 10-fold dilutions of your samples.

- Insert the Opener into the aluminium seal and pierce two holes. The opener can be decontaminated using either an alcohol solution/wipe or by placing directly into a flame.
- Dispense 1 ml of the specimen with clean pipette into the holes.
- Insert a second pipette into the second hole and homogenize the specimen.
- Remove 1 ml of the homogenized specimen and place it onto the Compact Dry plate.
- To dilute further, repeat the above steps.
- Each vial contains 9 ml Phosphor buffered Saline.
- Can be stored anywhere at room temperature up to 1 year.





HyServe

Compact Dry Product Range

	Part Number	Packaging	Applications		Part Number	Packaging	Applications
Compact Dry AQ	HS1002950 <a href="#">↗</a>	40 Tests	Heterotrophic	Compact Dry SL	HS1002973 <a href="#">↗</a>	40 Tests	Salmonella
	HS1002951 <a href="#">↗</a>	240 Tests			HS1002938 <a href="#">↗</a>	240 Tests	
	HS1402951 <a href="#">↗</a>	500 Tests			HS1402938 <a href="#">↗</a>	500 Tests	
	HS1402992 <a href="#">↗</a>	1200 Tests			HS1002940 <a href="#">↗</a>	920 Tests	
	HS1502992 <a href="#">↗</a>	1404 Tests			HS1402887 <a href="#">↗</a>	1200 Tests	
Compact Dry CF	HS1000867 <a href="#">↗</a>	40 Tests	Coliforms	HS1502887 <a href="#">↗</a>	1404 Tests	Total Count	
	HS1000868 <a href="#">↗</a>	240 Tests		HS1000166 <a href="#">↗</a>	40 Tests		
	HS1002879 <a href="#">↗</a>	920 Tests		HS1000167 <a href="#">↗</a>	240 Tests		
	HS1402881 <a href="#">↗</a>	1200 Tests		Compact Dry TC	HS1002877 <a href="#">↗</a>		920 Tests
	HS1502881 <a href="#">↗</a>	1404 Tests		HS1402879 <a href="#">↗</a>	1200 Tests		
Compact Dry EC	HS1000168 <a href="#">↗</a>	40 Tests	E.coli and coliforms	HS1502879 <a href="#">↗</a>	1404 Tests	Total count for tea products	
	HS1000169 <a href="#">↗</a>	240 Tests		Compact Dry TTC	HS1000048 <a href="#">↗</a>		
	HS1002878 <a href="#">↗</a>	920 Tests		Compact Dry VP	HS1000900 <a href="#">↗</a>		40 Tests
	HS1402880 <a href="#">↗</a>	1200 Tests			HS1001014 <a href="#">↗</a>		240 Tests
	HS1502880 <a href="#">↗</a>	1404 Tests			HS1401014 <a href="#">↗</a>		500 Tests
Compact Dry ETB	HS1002941 <a href="#">↗</a>	40 Tests	Enterobacteriaceae	HS1402886 <a href="#">↗</a>	1200 Tests	Vibrio parahaemolyticus	
	HS1002942 <a href="#">↗</a>	240 Tests		HS1502886 <a href="#">↗</a>	1404 Tests		
	HS1402942 <a href="#">↗</a>	500 Tests		Compact Dry XBC	HS1002970 <a href="#">↗</a>		40 Tests
	HS1002943 <a href="#">↗</a>	920 Tests			HS1002971 <a href="#">↗</a>		240 Tests
	HS1402889 <a href="#">↗</a>	1200 Tests			HS1402971 <a href="#">↗</a>		500 Tests
Compact Dry ETC	HS1502889 <a href="#">↗</a>	1404 Tests	Enterococci	HS1002972 <a href="#">↗</a>	920 Tests	Bacillus cereus	
	HS1002944 <a href="#">↗</a>	40 Tests		HS1402991 <a href="#">↗</a>	1200 Tests		
	HS1002945 <a href="#">↗</a>	240 Tests		HS1502991 <a href="#">↗</a>	1404 Tests		
	HS1402945 <a href="#">↗</a>	500 Tests		Compact Dry XSA	HS1002960 <a href="#">↗</a>		40 Tests
	HS1002946 <a href="#">↗</a>	920 Tests			HS1002961 <a href="#">↗</a>		240 Tests
HS1402993 <a href="#">↗</a>	1200 Tests	HS1402961 <a href="#">↗</a>	500 Tests				
Compact Dry LS	HS1502993 <a href="#">↗</a>	1404 Tests	Listeria	HS1002962 <a href="#">↗</a>	920 Tests	Staphylococcus aureus	
	HS1000899 <a href="#">↗</a>	40 Tests		HS1002990 <a href="#">↗</a>	1200 Tests		
	HS1001013 <a href="#">↗</a>	240 Tests		HS1502990 <a href="#">↗</a>	1404 Tests		
	HS1401013 <a href="#">↗</a>	500 Tests		Compact Dry YM	HS1000869 <a href="#">↗</a>		40 Tests
	HS1402885 <a href="#">↗</a>	1200 Tests			HS1000870 <a href="#">↗</a>		240 Tests
HS1502885 <a href="#">↗</a>	1404 Tests	HS1400871 <a href="#">↗</a>	500 Tests				
Compact Dry PA	HS1002947 <a href="#">↗</a>	40 Tests	Pseudomonas	HS1002880 <a href="#">↗</a>	920 Tests	Yeast and mould	
	HS1002948 <a href="#">↗</a>	240 Tests		HS1402882 <a href="#">↗</a>	1404 Tests		
	HS1002949 <a href="#">↗</a>	500 Tests		Compact Dry YM RAPID	HS1600869 <a href="#">↗</a>		40 Tests
	HS1502949 <a href="#">↗</a>	1404 Tests		HS1600871 <a href="#">↗</a>	500 Tests		
					HS1602882 <a href="#">↗</a>	1404 Tests	Yeast and mould





## Food Safety Monitoring Systems

Hygiena's monitoring systems and devices are the preferred choice around the world by both large and small food service establishments because of performance, ease of use, and cost.

Using either Hygiena's SystemSURE Plus or ENSURE system, quality assurance and sanitation managers have access to portable, affordable and highly-reliable instruments to conduct tests swiftly and receive accurate results in just seconds.



SystemSURE Plus EnSURE

### Benefits



**Speed.** Obtain rapid results as fast as 15 seconds, simply place the activated individual swab into the handheld system.

**Flexible.** Hygiena offers a wide range of reliable, easy to use, and self-contained food safety testing devices and swabs for detecting the presence of ATP, specific enzymes and bacteria.

**Easy to use.** Compatible testing devices are activated with a simple snap and squeeze action, then placed into these handheld systems which provide results in seconds. The test devices you use will determine which monitoring system is best for your needs.

### Performance

Hygiena's monitoring systems and sample collection devices offer unparalleled speed, reliability, and performance to give quality assurance and sanitation personnel the tools needed to quickly verify the effectiveness of cleaning protocols and procedures.

### Cost Effective

With state-of-the-art manufacturing facilities and patented designs, Hygiena delivers superior products with fewer components at lower costs. These savings are passed on to the end users in the form of affordable, reliable food safety testing systems and devices with lower environmental impact.

### Environmental Impact

Hygiena develops products with a low carbon footprint and most disposable products are 100% recyclable. Patented designs of test devices require half the plastic of comparable tests and do not include materials that are difficult to remove and recycle.



### EnSURE

EnSURE is a quality monitoring system that uses one instrument platform to collect, analyze and report data from multiple quality indicators. The EnSURE system is a simple to use, flexible, and accurate quality monitoring system for numerous industrial applications.

The EnSURE is designed for convenient, single-hand use to make using the system and navigating the menus easy for every user. Don't let the petite shape fool you - EnSURE makes no compromises when it comes to durability. The rugged outer shell and splash-proof keypad keep EnSURE safe in the harshest environments. For extra protection, every system comes with a complimentary carrying case with a shoulder strap for hands-free transportation to test locations

#### Run multiple tests on one system

The EnSURE system is designed to be used for multiple quality and food safety tests. Users can use the system for ATP hygiene monitoring or have an expanded program that incorporates cooking efficiency and allergen prevention tests for environmental monitoring and finished product testing.

EnSURE System is compatible with the following Hygiena Swabs:

- ATP Surface Hygiene Monitoring - UltraSnap
- ATP Water Monitoring - AquaSnap
- High Sensitive ATP/Allergen Prevention - SuperSnap
- Microorganism Detection, Enterobacteriaceae / Coliform / E. coli - MicroSnap



HG-ENSURE

[Learn more!](#)   
[Watch the Video](#)

*Hit the play button!*



### SystemSURE Plus

SystemSURE Plus is the next generation of the world's best-selling SystemSURE II ATP hygiene monitoring system. This new system uses state-of-the-art electronics with improved functionality, but still maintains its small hand-held design and affordability.

#### Proven performance

The SystemSURE line of ATP monitoring systems has been used by the food and beverage industry for over 10 years. Not only are they designed to last, but more importantly, to perform better than all other systems on the market.

#### Minimal size, maximum durability

The SystemSURE Plus is designed for convenient, single-hand use to make using the system and navigating the menus easy for every user. Don't let the petite shape fool you - SystemSURE Plus makes no compromises when it comes to durability. The rugged outer shell and splash-proof keypad keep SystemSURE Plus safe in the harshest environments. For extra protection, every system comes with a complimentary carrying case with a shoulder strap for hands-free transportation to test locations.

SystemSURE Plus is compatible with the following Hygiena Swabs:

- ATP Surface Hygiene Monitoring - UltraSnap
- ATP Water Monitoring - AquaSnap
- High Sensitive ATP/Allergen Prevention - SuperSnap



HG-SSPLUS

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## Digital Dry Block Incubators



Small Format  
HG-INCUBATOR [Shop](#)



Lab Format  
HG-INCUBATOR2 [Shop](#)

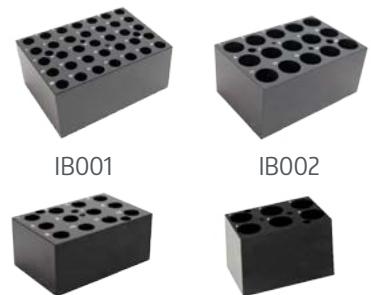
Hygiena's Digital Dry Block Incubators are designed specifically for Hygiena's wide variety of test devices. Capable of up to 105 °C, the incubators can be set to any temperature required for Hygiena products. The digitally controlled, interchangeable blocks of the Lab Format Incubator are independently heated, allowing you to run two temperatures on one incubator at the same time – ideal for running a variety of tests. Auto-stop and sound alert features help you achieve perfect incubation time, every time. Available in two sizes and up to 70 wells, Hygiena's Digital Dry Block incubator is configurable for your unique needs.

### Benefits

- Designed specifically for Hygiena test devices
- Numbered wells help keep testing organized
- Flexible configuration can accommodate swab test devices or large volume tubes
- Digitally controlled independent blocks can be held at different temperatures
- Small footprint takes minimal lab bench space

### Features:

- Wide temperature range:
  - RT+5 – 105 °C for Lab Format / RT+5 – 80 °C for Small Format Incubator
- Temperature stability  $\leq \pm 0.5$  °C
- Heats to max temp in less than 15 minutes
- Timer range: 1 min - 99 hr 59 min
- Footprint / Weight:
  - Small Format (WxDxH): 11 cm x 15 cm x 8 cm, 0.5 kg / 4.3 in x 5.9 in x 3.1 in, 1.1 lbs
  - Lab Format (WxDxH): 36.5 cm x 21 cm x 15 cm, 4.5 kg / 14.4 in x 8.3 in x 5.9 in, 9.9 lbs



IB001

IB002



IB003



IB004

\* Blocks are sold individually

Part Number	Description	
HG-INCUBATOR	Incubator Dry Block small Variable Temp A - 100°C	<a href="#">Shop</a>
HG-INCUBATOR2	Incubator Digital Dry Block .Variable Temp A - 100°C	<a href="#">Shop</a>



[Learn more!](#) [Watch the Video](#)

*Hit the play button!*



# Allerflow | Gluten

AllerFlow Gluten is a rapid and convenient test for detection of gluten residue on surfaces as part of an allergen control program. Combining Hygiena's convenient sample collection swab design with classic lateral flow technology, AllerFlow Gluten makes gluten testing easier than ever before. Unlike other kits that contain several components, AllerFlow Gluten only consists of two parts – a sample collection device and a lateral flow cassette. The convenient sample collection swab device contains pre-measured extraction buffer for consistent results with minimal handling. After collection, the sample is poured directly into the lateral flow cassette fill well and results appear within 10 minutes.

## Benefits

- Convenient and quick sample collection requires minimal training
- Pre-moistened swab enables reliable collection to ensure accurate results
- Simple two part kit includes all required materials - no pipettes, bottles, scales, or heating blocks required
- Pre-measured, self contained extraction buffer provides consistent results
- Easy-to-interpret lateral flow test results in 10 minutes
- Specific to the toxic fraction of gluten from wheat, barley, rye, and oat
- No cross-reactivity with soy, rice, or corn
- Up to 15 month shelf life at room or refrigerated temperatures (2-25°C) \*  
(\* From date of manufacturing).

## Sensitivity

- Sensitive to 5 µg/swab (5 ppm) gluten within 10 minutes

## Positive Result



## Negative Result



Part Number	Description	Quantity
HG-ALF-GL	AllerFlow Gluten: Gluten Surface Residue Test Kit <a href="#">Shop</a>	25





# AllerSnap™ Protein Residue Test

[Learn more!](#) [Watch the Video](#)

*Hit the play button!*



AllerSnap accurately monitors the cleanliness of surfaces to help ensure product quality by detecting protein residues left on a surface after cleaning. Simply swab a surface, release the reagent, incubate, and if protein residue is present, the reagent will turn purple.

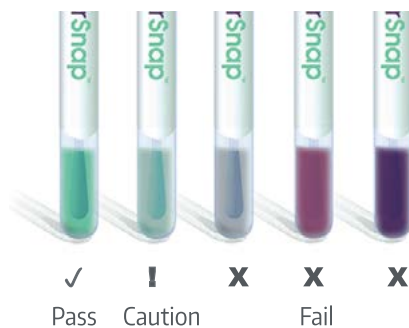
The color change provides a semi-quantitative measure of surface cleanliness. More contamination produces a quicker and darker color change to purple. AllerSnap rapidly validates the hygiene of a surface, allowing immediate corrective action to be taken if necessary.

### Benefits

- Results in 15-30 minutes
- Easy-to-interpret color results
- Broad-range, non-specific protein detection offers speed over specific allergen tests
- Unique liquid-stable chemistry produces consistent results
- Pre-moistened swab provides reliable collection, recovery, and detection to ensure consistent results
- Low carbon footprint devices are 100% recyclable
- 18 month shelf life at room or refrigerated temperatures (2-25°C) \*  
(\* From date of manufacturing).

### Sensitivity

- Detects 3 µg protein after 30 minutes at 37 °C or 15 minutes at 55 °C



Part Number	Description	Quantity
HG-ALS100	AllerSnap Allergen Prevention Test <a href="#">Shop</a>	100





# GlutenTox<sup>®</sup> | ELISA Gluten detection and quantification kits

Immunoabsorbent assays for detection and quantification of the toxic fraction of gluten in food and beverages

## GlutenTox<sup>®</sup> ELISA Competitive

- Contains the G12 anti-gliadin antibody that recognizes the most immunogenic epitopes of gluten
- Limit of detection 3 ppm
- Results in 1,5 hours
- Valid for hydrolyzed food testing

## GlutenTox<sup>®</sup> ELISA Sandwich

- Contains two different antibodies (G12 and A1) that recognize different epitopes within the gliadin 33-mer peptide
- Limit of detection 0,6 ppm
- Results in 2,5 hour
- Valid for a wide range of food matrices

### Features:

- Specific to the immunotoxic fraction of gluten from wheat, rye, barley and oat
- No cross reactivity with any safe food for celiacs, including soy, rice and corn
- Unique method to detect potential toxic oats

### Industrial application

- Gluten-free food quality control of final products
- Monitoring of gluten detoxification
- Implementation and fulfillment of HACCP, ISO 22000, BRC, and IFS compliance

Each kit contains 96 wells to perform gluten analysis.



Part Number	Description		Format
BMKT-4758	GlutenTox ELISA Competitive	<a href="#">Shop</a>	96 wells
BMKT-5196	GlutenTox ELISA Sandwich	<a href="#">Shop</a>	96 wells





# GlutenTox<sup>®</sup> | PRO

### Quick test for the detection of gluten in food, beverages, oral hygiene products and on surfaces.

[Learn more!](#) [Watch the Video](#)

Hit the play button!



**GlutenTox<sup>®</sup> Pro** is a rapid and user-friendly immunochromatographic test for the detection of gluten in food and beverages with different composition and processing level, from raw materials to processed food.

**GlutenTox<sup>®</sup> Pro** is also used for detecting the presence of gluten in oral hygiene products, such as toothpaste and mouthwash, which is useful since these products may be ingested. In addition, **GlutenTox<sup>®</sup> Pro** can be used to control the cleanliness of food production zones through surface analysis, a pre-requisite to prevent the risk of cross-contamination in the final product.

**GlutenTox<sup>®</sup> Pro** rapid test is specially useful in routine monitoring of gluten to ensure that products comply with a program of Hazard Analysis and Critical Control Points (HACCP), and to ensure proper labeling. They also allow quick decisions and corrective actions in case there is any risk of contamination along the production chain.

**GlutenTox<sup>®</sup> Pro** is based on an anti-gliadin-33mer mouse monoclonal antibody (G12) that is specific to the toxic fraction of gluten (33-mer peptide) and reacts to prolamins of wheat (gliadin), barley (hordein), rye (secalin), and oat (avenin).

### Sensitivity/Specificity

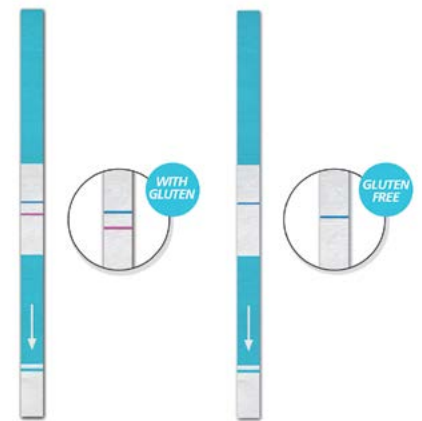
- Detection limit of the assay 5 ppm of gluten in samples (detection limit of the strip - 15 ng/mL of gliadin)
- Specific to prolamins of wheat (gliadin), barley (hordein), rye (secalin) and oat (avenin)
- Does not cross react with soy, rice or corn

### Kit Components

- **GlutenTox<sup>®</sup> Pro** sticks (x25) in a tube
- Plastic pipettes (x50)
- Disposable plastic spoons (x25)
- Extraction bottles with yellow cap (x25)
- Dilution bottles with blue cap (x25)
- Instructions leaflet

### Applications

- For semi-quantification of gluten in food, beverages and other consumer products, (including personal care and cosmetic products)
- For quality control of gluten free food
- To trace gluten contamination in food and working surfaces
- For safety regulation according to HACCP, IFS and BRC standards



Part Number	Description	Format
BMKT 5660	GlutenTox Pro <a href="#">Shop</a>	25 Sticks



# GlutenTox® | Sticks Plus

## Quick test for the determination of gluten content

**GlutenTox® Sticks Plus** is a rapid and sensitive lateral flow immunoassay test for semiquantitative determination, or even quantitative determination by means of **GlutenTox® Reader**, of gluten in all kind of foodstuffs, from raw materials to processed food and/or heat-processed foods including products for personal care and cosmetics. It can also be used for surface detection to ensure working surfaces are suited to produce gluten-free products.

The extraction solution provided in the kit, Universal Gluten Extraction Solution (UGES), is suited for all types of food thanks to the combination of denaturing agents, reducing agents and solubilizers. This extraction protocol achieves a more effective extraction of gliadins even in complex samples, such as heat-processed food and samples containing polyphenols, tannins or antioxidants.

**GlutenTox® Sticks Plus** is based on an anti-gliadin-33mer mouse monoclonal antibody (G12) that is specific to the toxic fraction of gluten (33-mer peptide) and reacts to prolamins of wheat (gliadin), barley (hordein), rye (secalin), and oat (avenin).

**GlutenTox® Sticks Plus** test is designed for quality control and research laboratories. It allows two options for the reading of the results:

- **Visual reading**  
By using different dilutions, various cut-off can be assessed in less than one hour (ie. 3 ppm, 10 ppm, 20 ppm and/or 100 ppm).
- **Digital reading with the GlutenTox® Reader\***.  
A reliable and quantitative result is obtained in less than one and a half hour.



(\*Reader is sold individually)

## Sensitivity/Specificity

- Detection limit of the assay 3 ppm of gluten in samples (detection limit of stick - 15 ng/mL of gliadin)
- Specific to prolamins of wheat (gliadin), barley (hordein), rye (secalin) and oat (avenin)
- Does not cross react with soy, rice or corn



## Applications

- For semi-quantification (or quantification by using the **GlutenTox® Reader**) of gluten in food, beverages and other consumer products, including personal care and cosmetic products.
- For quality control of gluten free food
- For research on gluten toxicity
- To trace gluten contamination in food and working surfaces
- For safety regulation according to HACCP, IFS and BRC standards

## Contents

- **GlutenTox® Sticks** (25 tests)
- Universal Gluten Extraction Solution (UGES) (250 mL)
- Dilution Solution (30 mL)
- Microtiter plate strips (4 strips x 8 wells)
- Positive Control (10 g)
- Negative Control (10 g)

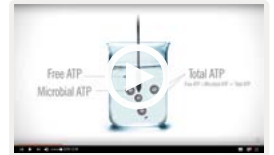
Part Number	Description	Format
BMKT-5340	GlutenTox Sticks PLUS <a href="#">Shop</a>	25 Sticks





Learn more! Watch the Video

Hit the play button!



# AquaSnap™ | ATP for Liquid Samples



AquaSnap is an easy-to-use ATP liquid test compatible with Hygiena luminometers. The device is available in two formats: Free and Total. AquaSnap Free measures dissolved ATP that is free in solution (non-microbial ATP). AquaSnap Total measures both free ATP in solution and microbial ATP (non-microbial and microbial ATP).

The difference between Total and Free provides an indication of microbial contamination in the sample. Both tests feature a specifically designed dipper tip that collects 100 µl of water, ensuring consistent sample collection.

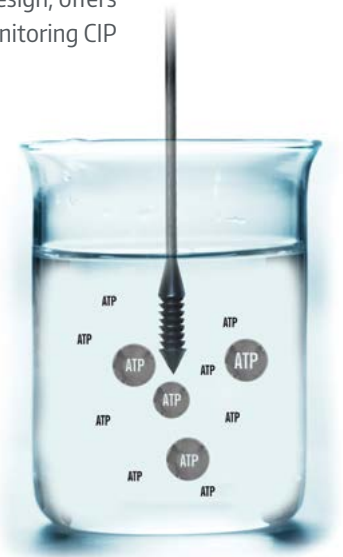
The test device's unique liquid-stable chemistry, combined with simple design, offers unrivaled accuracy and reproducibility. The devices are often used for monitoring CIP systems, and for industrial water treatment systems such as cooling towers and closed water systems.

## Benefits

- Easy-to-use
  - Results in 15 seconds
  - Patented Snap-Valve™ design enables accurate results with less variation
  - Unique liquid-stable reagent provides accuracy and reproducibility
  - Reagent is tolerant to temperature abuse and sanitizer effects
  - Honey dipper collects consistent 100 µl sample
  - 100% recyclable plastic
  - 15 month shelf life at refrigerated temperature (2-8°C) \*
  - 4 week shelf life at room temperature (21-25°C) \*
- (\* From date of manufacturing).

## Sensitivity

- Extremely sensitive- detects down to 0.1 femtomoles ATP with
- EnSURE or Pi-102 luminometer
- Detects down to 10<sup>3</sup> CFU



Compatible with: SystemSURE Plus + EnSURE

Part Number	Description		Quantity
HG-AQ100	Aquasnap for SystemSURE II / Plus	<a href="#">Shop</a>	100
HG-AQ100F	Aquasnap Free for SystemSURE II / Plus	<a href="#">Shop</a>	100





# SnapShot™ | ATP Device for 3M™ & Bio-Trace™ Luminometers



SnapShot is designed to help companies conducting ATP monitoring with a 3M™ or Bio-Trace™ luminometers reduce costs and achieve more accurate results. SnapShot works exactly the same as the test device it is replacing so there is no need to adjust Pass/Fail settings in the luminometer.

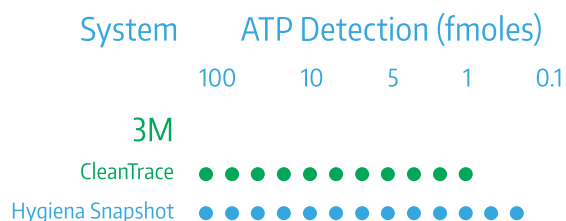
### Benefits:

- Costs up to 50% less than Clean-Trace™ test devices
  - Patented device design enables superior sample recovery
  - Unique liquid-stable chemistry produces consistent results
  - Sensitive to low levels of contamination
  - More tolerant to temperature abuse and sanitizers
  - SnapShot uses less materials and plastic than Clean-Trace™ devices
  - 100% recyclable
  - 15 month shelf life at refrigerated temperatures (2-8°C)\*
  - 4 week shelf life at room temperature (21-25°C) \*
- (\* From date of manufacturing).

### Performance:

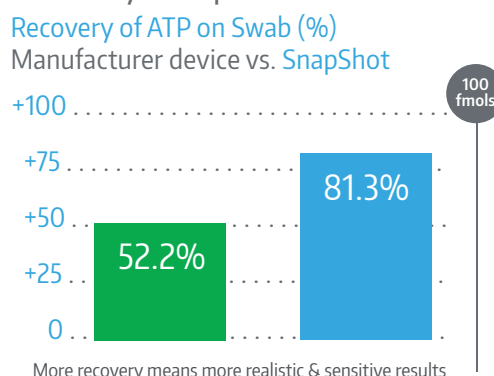
- SnapShot devices offer greater sensitivity over Clean-Trace™ tests
- SnapShot's unique, patented design helps to lower test-to test variability in 3M™ or Bio-Trace™ instruments

### Sensitivity Comparison



\*All performance data is extracted from a third party comparative study.

### Accuracy Comparison



Part Number	Description	Quantity
HG-SPXL1333	SnapShot Universal ATP Detection Device for 3M™ and Bio-Trace™ <a href="#">Shop</a>	100





# SuperSnap™

## High Sensitivity ATP

Learn more! Watch the Video

Hit the play button!



SuperSnap is the most sensitive ATP test in Hygiena's line of ATP devices.

Designed to work with all Hygiena luminometers, SuperSnap detects extremely low levels of ATP. The test is used predominantly in food and beverage manufacturing where the highest standards of hygiene are required.

SuperSnap reagents are formulated for superior resistance to sanitizer effects, making it an ideal ATP test when dealing with harsh environments or difficult samples. By incorporating SuperSnap into a food safety program, risks and issues are recognized in real time so corrective action can be implemented before product change-overs occur.

### Benefits

- Patented device design ensures maximum sample collection and recovery
  - More sensitive liquid stable reagent detects very small amounts of ATP
  - Robust reagent is resistant to sanitizer effects and temperature abuse
  - 100% recyclable plastic
  - 15 month shelf life at refrigerated temperatures (2-8°C) \*
  - 4 week shelf life at room temperature (21-25°C) \*
- (\* From date of manufacturing).

### Sensitivity



- 4 times more sensitive than UltraSnap Surface ATP Tests
- 100 times more sensitive than other systems on the market when used with EnSURE monitoring system
- 5 times more resistant to acid based sanitizers
- 10 times more resistant to alkali based sanitizers

Swab



Snap



Squeeze



It's that easy!

### Hygiena System

femtomoles ATP  
ATP (moll)

### SuperSnap Detection Limit

10 fmol	1 fmol	.1 fmol	.01 fmol	.001 fmol
1x10 <sup>-14</sup>	1x10 <sup>-15</sup>	1x10 <sup>-16</sup>	1x10 <sup>-17</sup>	1x10 <sup>-18</sup>

SystemSURE Plus



EnSURE



Pi-102



Part Number	Description	Quantity
HG-SUS3000	SuperSnap <a href="#">Shop</a>	100





# UltraSnap™

## Surface ATP Test

Learn more! Watch the Video

Hit the play button!



UltraSnap is a user-friendly, all-in-one ATP sampling test used with Hygiena luminometers. This pen-sized sample collection device is easy to use, small, and environmentally friendly. In addition, UltraSnap uses a unique liquid-stable reagent providing superior accuracy, longer-lasting signal strength, and more reproducible results.

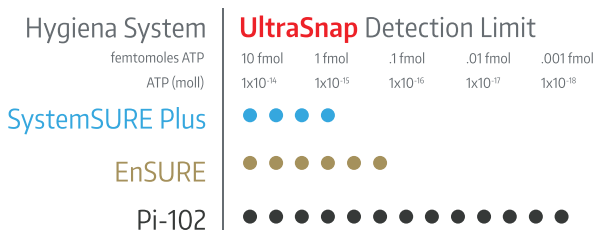
### Benefits

- Pre-wetted swab maximizes sample recovery and breaks through biofilm
  - Unique liquid-stable reagent gives superior sensitivity and reliable results
  - 100% recyclable plastic
  - Costs up to 50% less than other ATP test devices
  - 15 month shelf life at refrigerated temperatures (2-8°C) \*
  - 4 week shelf life at room temperatures (21-25°C) \*
- (\* From date of manufacturing).

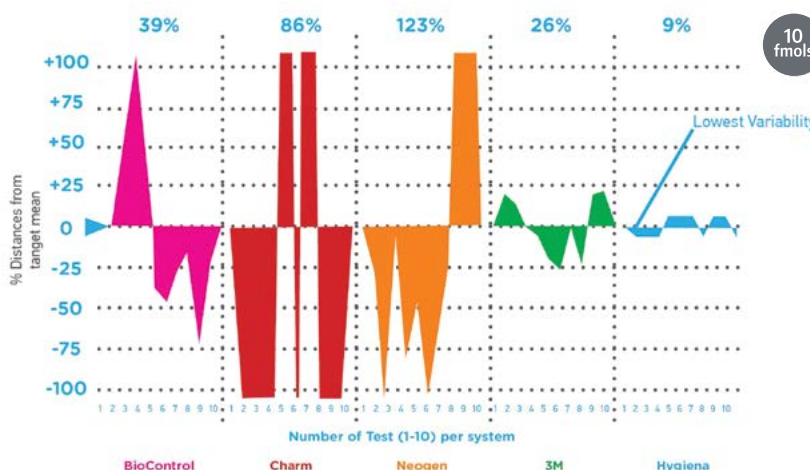


Compatible with: SystemSURE Plus + EnSURE

### Sensitivity



Repeatability: Variability in results with the same sample



### Performance

UltraSnap's superior performance was validated in a third party study conducted by a large reference laboratory. In addition to superior repeatability (Diagram 1), Hygiena's system demonstrated outstanding performance for linearity, sensitivity, and accuracy.

Part Number	Description	Quantity
HG-US2020	Ultrasnap for SystemSURE II / Plus <a href="#">Shop</a>	100



# WaterShot™ | Universal Water ATP Test



FREE TOTAL

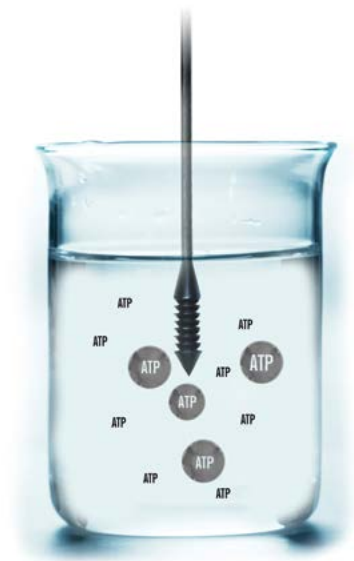
WaterShot is a universal ATP water test designed to work with 3M™ or BioTrace™ luminometers. Substituting WaterShot helps to reduce costs and achieve more accurate results. The device is available in two formats: Free and Total.

WaterShot Free measures dissolved ATP that is free in solution (non-microbial ATP). WaterShot Total measures both free ATP in solution and microbial ATP (non-microbial and microbial ATP). The difference between Total and Free provides a measure of microbial contamination in the sample. Both tests feature a specifically designed dipper tip that collects 100 µl of water, ensuring consistent sample collection.

The test device's unique liquid-stable chemistry, combined with simple design, offers unrivaled accuracy and reproducibility. The devices are often used for the management of CIP systems, water treatment systems such as cooling towers and closed water systems.

## Benefits

- Costs up to 50% less than CleanTrace™ water ATP devices
  - Patented Snap-Valve™ design enables accurate results with less variation
  - Unique liquid-stable reagent provides accuracy and reproducibility
  - Reagent is tolerant to temperature abuse and sanitizer effects
  - Honeycomb dipper collects consistent 100 µl sample
  - Compatible with 3M™ and BioTrace™ instruments
  - 100% recyclable plastic
  - 12 month shelf life at refrigerated temperatures (2-8°C) \*
  - 4-week shelf life at room temperatures (21-25°C) \*
- (\* From date of manufacturing).



## Sensitivity

- Extremely sensitive (2 fmol ATP)
- Detects down to 10<sup>4</sup> CFU

Part Number	Description	Quantity
HG-W-SPXL1333	WaterShot Total <a href="#">Shop</a>	100
HG-WF-SPXL1333	WaterShot Free <a href="#">Shop</a>	100





## oleotest | OleoTest

### A colorimetric assay that allows to determine total polar compounds in frying fats in only 2 minutes

[Learn more!](#) [Watch the Video](#)

Hit the play button!



During the frying process, the fat/oil is exposed to atmospheric oxygen and moisture at high temperatures (over 160 °C) for a long time; as a result, many chemical reactions take place in the frying fat producing a number of harmful compounds that can favour the appearance of several health problems, such as lung or stomach cancer. With this in mind, many countries have already made the monitoring of frying fat quality a legal obligation, while others are on the way to do it.

**Oleotest™** is innovative because of its accuracy, simplicity of use and also because the results remain stable for several months, allowing the test itself to be kept as registry in the scope of HACCP or Food Safety Systems. The Quality Control of the tests is continuously verified by independent entities.

#### Features

- Easy to use: from technical/scientific personnel to home users  
No technical skills needed
- Rapid and immediate results, less than 2 minutes
- Simple, it does not require any preparation, calibration, external reagents, or instruments
- It does not require any maintenance, no need for washing or drying
- Easy to carry and to store, fits in your pocket and can be stored at room temperature
- Variable collection temperature of the sample  
Room temperature or higher



Good	
< 5%	1
6-12%	2
13-16%	3
17-23%	4
>24%	5
Bad	

#### Applications

- Food Industry
- Catering Industry
- Restaurants
- Street food vendors
- Domestic use



Find out more! [↗](#)

Part Number	Description		Format
BMOLEO10	Oleotest 10	<a href="#">Shop</a>	10 Tests
BMOLEO50	Oleotest 50	<a href="#">Shop</a>	50 Tests





## Reliable microbiological sampling of critical surfaces

### NRS II Transwab®



Coliform Bacteria



Salmonella



### Neutralises trace disinfectant

NRS II Transwab® is MWE's name for its range of swab based environmental sampling devices for the food, pharmaceutical, biotechnology and cosmetic industries. There can also be applications in healthcare including the monitoring of infection control measures.

All NRS II Transwab® devices feature MWE's leak proof labelled self standing screw-cap tube made from shatterproof polypropylene, with a high visibility blue shaft swab attached to the cap. The swab features a rayon bud that can remain immersed in liquid, yet retains MWE's high standard for absorption, survival and release of microorganisms. The tubes are prefilled with the specified volume of solution and there is a choice of NRS, MWE's classic neutralising rinse solution, and a range of alternative buffers and media appropriate for particular applications.



## NRS (Neutralising Rinse Solution)

NRS Medium contains lecithin, polysorbate 80, and sodium thiosulphate in a peptone phosphate buffer. The formulation conforms to ISO 18593 and will neutralise most disinfectants used in the food industry, including those based on chlorine, peroxygen compounds, amphoteric, biguanides, and glutaraldehyde. This is a universal neutralising solution suitable for testing most disinfected areas within the food, cosmetic and pharmaceutical industries. Precise fill volumes allow accurate quantitative assessment of contamination levels.

## Buffered Peptone Water

Buffered Peptone Water contains peptone and sodium chloride, with a phosphate buffer, and is used for the recovery of Salmonella, especially in environments where they may have been sub-lethally injured.

## Butterfield Buffer

Butterfield Buffer (also called Butterfield's Solution or Butterfield's phosphate buffered dilution water) contains potassium phosphate as specified by APHA and FDA, and is used in standard methods for the enumeration of bacteria and fungi in foods, water and pharmaceutical products. The standard formulation has been modified by the inclusion of a low level of peptone to reduce osmotic shock, and polysorbate 80 as a surfactant to assist the sampling process.

## MRD (Maximum Recovery Diluent)

Also called Peptone Saline. Maximum Recovery Diluent is an isotonic and protective medium for maximum recovery of microorganisms from environmental and food sources. It is also the recommended diluent for the sampling of carcasses in the European Union.

## Tryptic Soy Broth

Tryptic Soy Broth is a general purpose recovery medium with excellent growth properties for aerobes, anaerobes, and some fungi. It is widely used for sterility testing, particularly in pharmaceutical manufacturing.

## Lethen Broth

Lethen media are used to determine the bactericidal efficacy of quaternary ammonium based disinfectants.



Lethen broth is a growth medium recommended by the FDA for use in the microbiological testing of cosmetics, and the formulation is as described in the FDA Bacteriological Analytical Manual. Polysorbate 80 and lecithin are included to partially neutralise the preservatives commonly found in cosmetics.

## Effective sampling of food contact surfaces after cleaning

### NRS without Sodium Thiosulphate

Some testing methods (such as Petrifilm®) require medium without thiosulphate.

### Choice of fill

NRS medium and variants are available in a choice of 3 fill sizes

- 10ml and 5ml are used with standard and filtration methods.
- 1ml can be used directly with Petrifilm®, and other direct pour plating techniques



Part Number	Description	Quantity
MW784	NRSII™ Transwab® 5ml fill, Blue <a href="#">Shop</a>	50
MW785	NRSII™ Transwab® with 10ml fill, Blue <a href="#">Shop</a>	50
MW786	NRSII™ Transwab® 1ml fill, Blue <a href="#">Shop</a>	50





[▶ Learn more!](#) [Watch the Video](#)

*Hit the play button!*



## EnviroMax Plus® Environmental Sampling Swab



EnviroMax Plus® Pointed foam tip pre-moistened with 50% neutralizing buffer and 50% 0.1% Peptone water, polypropylene handle.

Ready to use environmental foam sampling swabs, provided in wet and dry format for accuracy and consistency of sample collection.

### Benefits

- Large tip for maximized collection and elution
- Quick-turn-open leak-proof cap
- Swab securely attached to cap
- Rigid foam paddle tip
- High-quality Puritan Foam tipped swab
- Shelf-life: 12 months
- Made in USA

### Dimensions

6.02" Overall Length (152.908 mm)

Tip

- 0.125" Dia. (15.545 mm)
- 2.220" Length (56.388 mm)

Handle

- 0.125" Dia. (3.175 mm)
- 5.60" Length (142.240 mm)

### Applications

- For environmental surface sampling
- Perfect for spot checks
- Quality control
- Detection of microorganisms



Part Number	Description	Quantity
PP25-88050PF-50	EnviroMax Plus, Environmental Sampling Swab <a href="#">Shop</a>	25
PP25-88050PFB	EnviroMax Plus, Environmental Sampling Swab <a href="#">Shop</a>	400



# QD-Loop™ | Dilution Device

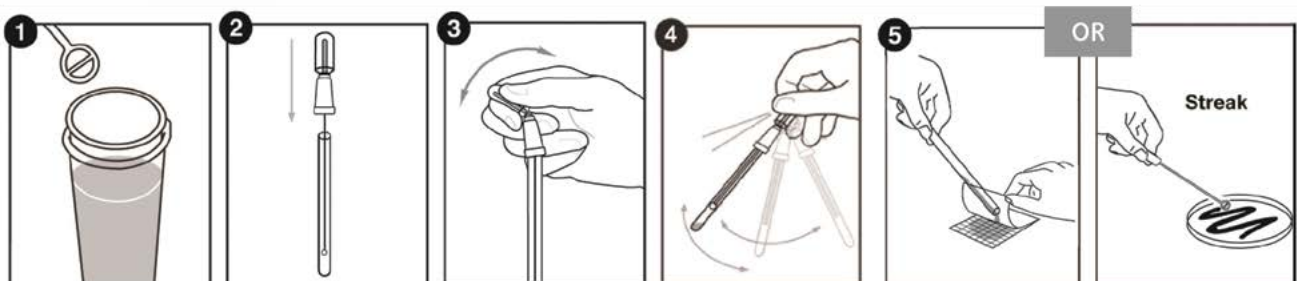


QD-Loop is an all-in-one sterile device for accurate and convenient dilutions. The device features a loop attached to a reservoir where patented Snap-Valve™ technology contains 1.0 ml of buffer. Simply collect sample, break the Snap-Valve, and a dilution is immediately ready to be poured onto dry media film or streaked onto an agar plate. QD-Loop comes in varying loop sizes for 1:10, 1:100, or 1:1000 dilution formats. This all-in-one system allows quicker and more convenient dilutions without special lab equipment.

## Benefits

- All-in-one sample collection system
  - Multiple dilution loop options
  - Aseptically filled and gamma irradiated
  - No need to prepare dilution buffers
  - Eliminates the need for pipettes
  - Reduces labor and lab equipment expense
  - 12 month shelf life at refrigerated temperatures (2-8°C) \*
- (\* From date of manufacturing).

## QD-Loop Procedure



Part Number	Description		Quantity
HG-QD10	QD-Loop 1:10 dilution device (Max Recovery Diluent)	<a href="#">Shop</a>	100
HG-QD100	QD-Loop 1:100 dilution device (Max Recovery Diluent)	<a href="#">Shop</a>	100
HG-QD1000	QD-Loop 1:1000 dilution device (Max Recovery Diluent)	<a href="#">Shop</a>	100





# Q-Swab™

## Environmental Sample Collection

Learn more! Watch the Video

Hit the play button!



Q-Swab is a ready-to-use sample collection and delivery device for environmental surface sampling. Money and time are saved by eliminating pipettes and broth preparation required with other sample collection methods. Each of the broths offered in Q-Swab are self-contained, gamma irradiated and held away from the swab by utilizing patented Snap-Valve technology. When the Snap-Valve is snapped, broth is released down the swab shaft, neutralizing residual sanitizers and facilitating recovery of bacteria. The sample is then ready to be poured onto dehydrated media film or streaked onto agar plates for culturing. Q-Swab can be used either wet or dry to sample environmental surfaces. Simply swab, snap and squeeze, and a sample is ready.

### Benefits

- Ready-to-use and convenient
- All-in-one sample collection system
- Rehydrates 1 dried media film perfectly
- Neutralizes residual sanitizers remaining on surface
- 100% recyclable plastic
- Available broths: Lethen & Buffered Peptone Water
- 18 month shelf life at refrigerated temperatures (2-8°C) \*  
(\* From date of manufacturing).



### Q-Swab Procedure



Part Number	Description	Quantity
HG-QS1200	Q-Swab Sample Collection Device, 1.0mL, Lethen Broth <a href="#">Shop</a>	250
HG-QS1000	Q-Swab Sample Collection Device, 1.0mL, Lethen Buffered Peptone Water <a href="#">Shop</a>	250



[Learn more!](#) [Watch the Video](#)

*Hit the play button!*



## MicroSnap™ Coliform



MicroSnap Coliform is a rapid test for detection and enumeration of Coliform bacteria. The test uses a novel bioluminogenic reaction that generates light when enzymes that are characteristic of Coliform bacteria react with specialized substrates. The light generating signal is then quantified in the EnSURE luminometer. Results are available in 8 hours or less, depending upon required level of detection. Single figure organisms can be detected in 8 hours, delivering results in the same working day or shift.

### Benefits

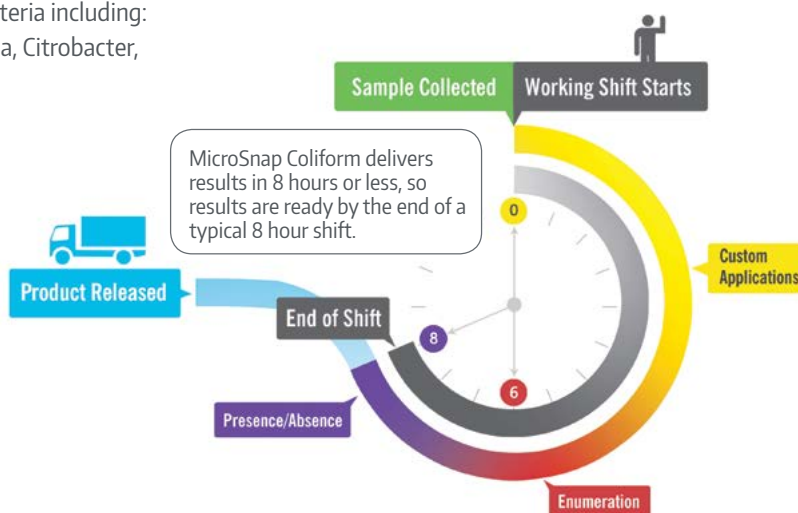
- 6 hour quantitative results (CFU counts)
- 8 hour presence/absence results
- Broad CFU detection range (10 – 10,000 CFU) means fewer dilutions and less sample prep saving time and money
- Suitable for product or environmental samples
- Pass/Fail result at required detection levels are easy to understand
- Uses common microbiology sample preparation for product samples
- Same day results allow for timely corrective action
- In-house testing reduces costs from outside lab fees
- AOAC Research Institute Performance Tested Method (#071302)
- 12 month shelf life at refrigerated temperatures (2-8°C) \*  
(\* From date of manufacturing).

### Sensitivity & Specificity

- Detects down to <10 CFU in 8 hours
- Detects Coliform bacteria including: Escherichia, Klebsiella, Citrobacter, and Enterobacter

### CFU : RLU - Conversion

CFU/ml or g	Coliform
<10	<2
<20	<4
<50	<7
<100	<12
<200	<20
<500	<35
<1,000	<60
<5,000	<180
<10,000	<300



Part Number	Description	Quantity
HG-MS2-COLIFORM	MicroSnap Coliform Detection Device <a href="#">Shop</a>	100





[Learn more!](#) [Watch the Video](#)

Hit the play button!



# MicroSnap™ E. coli



MicroSnap E. coli is a rapid test for detection and enumeration of Escherichia coli. The test uses a novel bioluminogenic reaction that generates light when enzymes that are characteristic of E. coli bacteria react with specialized substrates. The light generating signal is then quantified in the EnSURE luminometer. Results are available in 8 hours or less, depending upon required level of detection. Single figure organisms can be detected in 8 hours, delivering results in the same working day or shift.

## Benefits

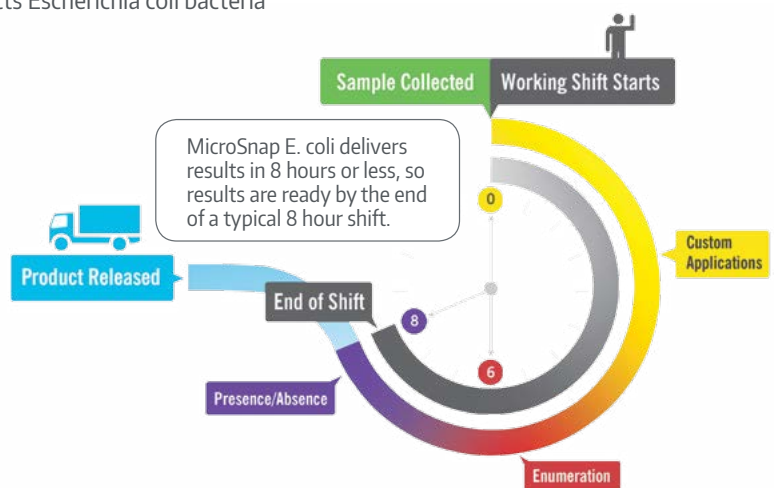
- 6 hour quantitative results (CFU counts)
- 8 hour presence/absence results
- Broad CFU detection range (10 – 10,000 CFU) means fewer dilutions and less sample prep saving time and money
- Suitable for product or environmental samples
- Pass/Fail result at required detection levels are easy to understand
- Uses common microbiology sample preparation for product samples
- Same day results allow for timely corrective action
- In-house testing reduces costs from outside lab fees
- AOAC Research Institute Performance Tested Method (#071302)
- 12 month shelf life at refrigerated temperatures (2-8°C) \*  
(\* From date of manufacturing).

## Sensitivity & Specificity

- Detects down to <10 CFU in 8 hours or less
- MicroSnap E. coli detects Escherichia coli bacteria

### CFU : RLU - Conversion

CFU/ml or g	E.coli (RLU)
<10	<2
<20	<4
<50	<7
<100	<12
<200	<20
<500	<35
<1,000	<60
<5,000	<180
<10,000	<300



Part Number	Description	Quantity
HG-MS1-CEC	MicroSnap Coliform/E.coli Enrichment Swabs <a href="#">Shop</a>	100
HG-MS1-CEC-BROTH-2ML	MicroSnap Coliform/E.coli Enrichment Broth <a href="#">Shop</a>	100
HG-MS2-ECOLI	MicroSnap E.coli Detection Device <a href="#">Shop</a>	100





# MicroSnap™ Enterobacteriaceae



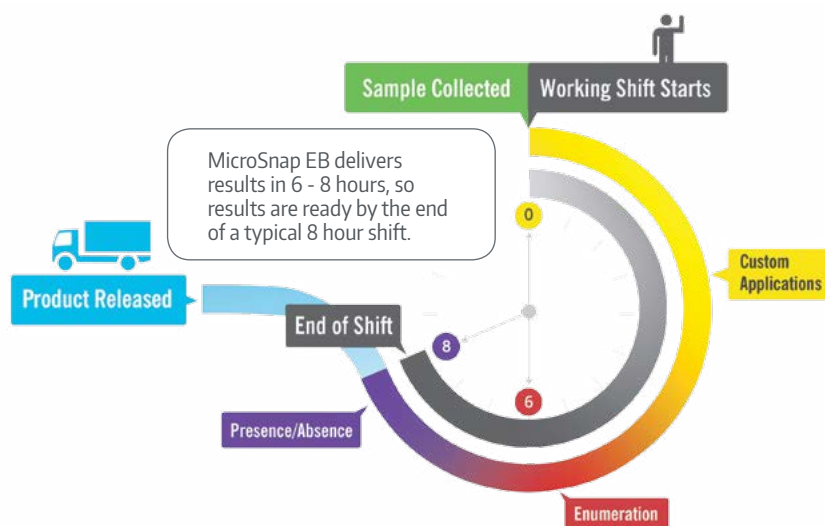
MicroSnap EB is a rapid test for detection and enumeration of Enterobacteriaceae (EB) bacteria. The test uses a novel bioluminogenic reaction that generates light when EB bacteria are present. The light generating signal is then quantified in the EnSURE luminometer. Organisms are detected in 6 – 8 hours, enabling MicroSnap EB to give results in the same working day or shift.

## Benefits

- 6 - 7 hour quantitative results (CFU counts)
- 8 hour qualitative results (presence/absence)
- Broad CFU detection range (0 – 50,000 CFU) means fewer dilutions and less sample prep saving time and money
- Suitable for product or environmental samples
- Uses common microbiology sample preparation for product samples
- Same day results allow for timely corrective action
- In-house testing reduces costs from outside lab fees
- 12 month shelf life at refrigerated temperatures (2-8°C) \*  
(\* From date of manufacturing).

## Sensitivity & Specificity

- Detects 0 – 50,000 CFU in 6 - 8 hours
- MicroSnap EB detects species within the Enterobacteriaceae family including indicator organisms and potential pathogens



Part Number	Description		Quantity
HG-MS2-EB	MicroSnap Enterobacteriaceae Detection Device	<a href="#">Shop</a>	100
HG-MS1-EB	MicroSnap Enterobacteriaceae Enrichment device	<a href="#">Shop</a>	100





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## MicroSnap™ Total Viable Count



MicroSnap Total is a rapid test for the detection and enumeration of total viable bacteria in 7 hours or less. The test uses a novel bioluminescent test reaction that generates light when viable bacteria are present. The light generating signal is then quantified with the EnSURE luminometer. MicroSnap Total's same day results enable immediate corrective action to be taken if necessary. MicroSnap Total is AOAC-RI PTM Validated for a variety of food matrices. (Lic # 031501)

### Benefits

- Results in 7 hours or less
- Broad CFU detection range (10-10,000 CFU) means fewer dilutions and less sample prep saving time and money
- Suitable for product or environmental samples
- Pass/Fail result at required detection levels are easy to understand
- Quantitative results (CFU counts)
- Uses common microbiology sample preparation for product samples
- Equivalent results to other culturing methods
- In-house testing reduces costs from outside lab fees
- AOAC-RI PTM validated (#031501)
- 12 month shelf life at refrigerated temperatures (2-8°C) \*  
(\* From date of manufacturing).

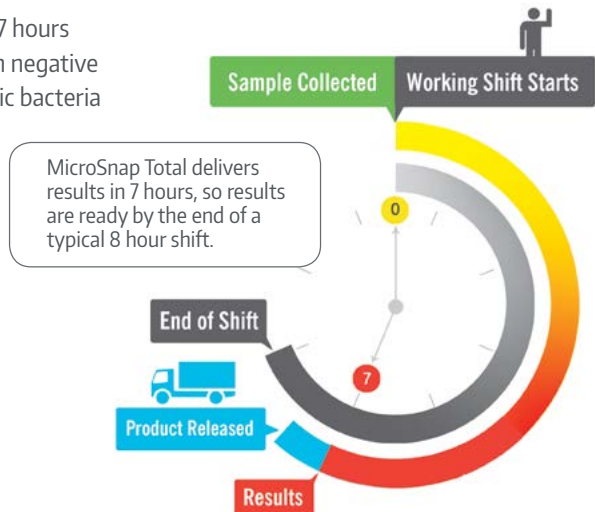
### Sensitivity & Specificity

- Detects down to <10 CFU/ml in 7 hours
- Detects Gram positive and Gram negative aerobic and facultative anaerobic bacteria



### CFU : RLU - Conversion

CFU/ml	×	TVC (RLU)
<10	×	<10
<20	×	<20
<50	×	<50
<100	×	<100
<5,000	×	<1,000



Part Number	Description	Quantity
HG-MS2-TOTAL	MicroSnap Total Detection Device <a href="#">Shop</a>	100
HG-MS1-TOTAL	MicroSnap Total Enrichment Swabs <a href="#">Shop</a>	100



# InSite™ | Environmental Listeria Species

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InSite is a quick and easy test for the detection of Listeria species in food processing environments. The test contains a liquid media formulated with growth enhancers, antibiotics and chromogenic compounds specific to the growth of Listeria species. A color change from yellow to light brown/black is presumptive positive.

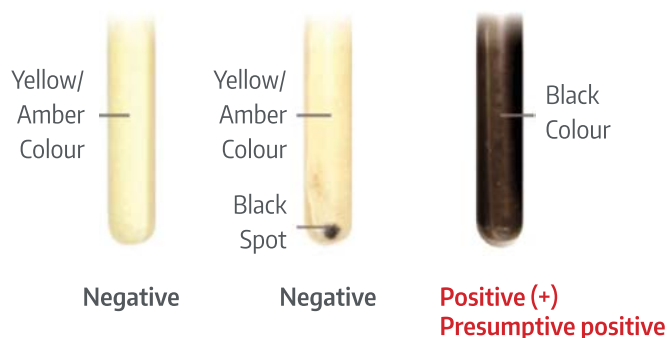
## Benefits

- Easy-to-use with no preparation steps required
- Large sponge tip maximizes sample collection for accurate results
- Eliminates costly outside lab fees for an equivalent test
- Color results are easy to interpret – brown/black indicates presence of Listeria species
- Positive results in as little as 24 hours
- Confirmed negative results in 48 hours
- Self contained tube eliminates risk of contamination
- 12 month shelf life at refrigerated temperatures (2-8°C) \*  
(\* From date of manufacturing).

## Sensitivity

- 1-10 CFU/mL Listeria spp.
- Detects heat injured *L. monocytogenes* at low levels (10-50 CFU/ml of broth), even in the presence of high numbers of competing organisms

## Interpreting results



Part Number	Description	Quantity
HG-IL100	InSite Listeria Environmental Listeria spp. (Box of 100) <a href="#">Shop</a>	100





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# InSite™ | Environmental Salmonella Species



InSite Salmonella is a quick and easy test for the detection of Salmonella species in food processing environments.

The test contains a liquid medium formulated with growth enhancers and chromogenic compounds selective for Salmonella species. A color change from purple to bright yellow in 24 – 48 hours is presumptive positive for Salmonella species. InSite Salmonella is a self-contained screening test which is easy to perform while reducing wait time, labor costs, and materials.

### Benefits

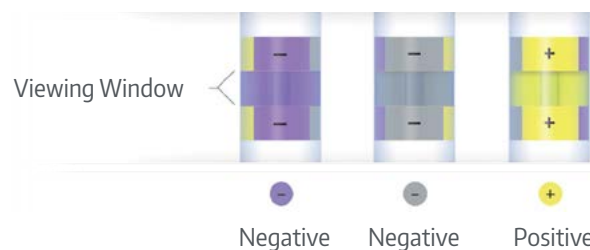
- Easy-to-use with no preparation steps required
- Large sponge tip maximizes sample collection for accurate results
- Eliminates costly outside lab fees for an equivalent test
- Color results are easy to interpret – bright yellow indicates presence of Salmonella species
- Positive results in as little as 24 hours
- Presumptive negative results in 48 hours
- Self contained tube eliminates risk of contamination
- 9 month shelf life at refrigerated temperatures (2-8°C) \*  
(\* From date of manufacturing).

### Sensitivity

- Detects Salmonella species down to 1-10 CFU, even in the presence of high numbers of competing organisms

### Interpretation

- InSite Salmonella features a viewing window with a result chart for easy interpretation. Results are presumptive positive when the Insite Salmonella media turns bright yellow.



Part Number	Description	Quantity
HG-IS050	Environmental Salmonella Screening Kit <a href="#">Shop</a>	50



## Path-Chek® Environmental Pathogen System

A range of swabs for the detection of **Salmonella, Listeria and Coliforms** from environmental surfaces.

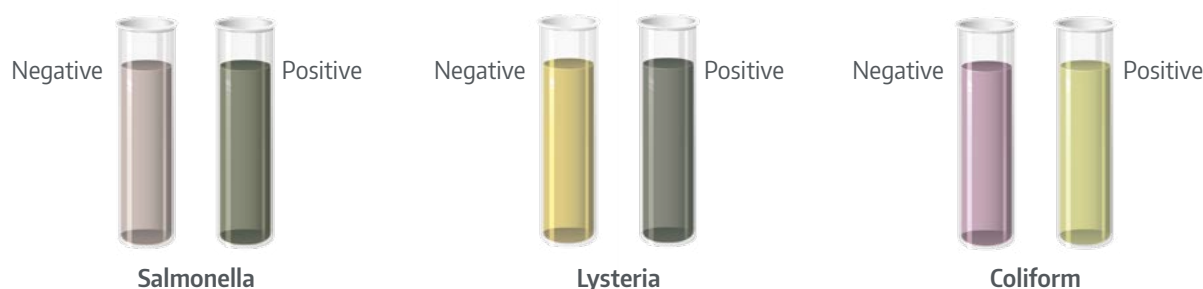
- High levels of sensitivity (<1cfu per cm<sup>2</sup>) and specificity
- Compliant with the requirements of ISO 18593:2004 (E)
- Meets the requirements of USDA/FSIS and us FDA testing methods
- Pre-moistened swabs increase recovery from wet and dry surfaces.
- Neutralises residual detergents and sanitising agents, preserving target microorganisms

As food manufacturers and processors realise the importance of environmental hygiene as part of a good manufacturing practice, the need for a cost-effective, easy-to-use, rapid and accurate method for environmental sampling rises. Microgen Bioproducts Ltd has met this need by developing a range of pre-moistened swabs for the detection of pathogenic bacteria from work surfaces or processing equipment and organism specific chromogenic growth media in which the swab is placed and then incubated: the Microgen Path-Chek Hygiene Swabs.

The Microgen Path-Chek Hygiene swabs consist of a two piece unit; moistened swabs for the collection of bacterial pathogens from work and processing equipment and specific chromogenic media tube into which the swab is placed after sampling. The range of Microgen Path-Chek Hygiene Swabs consist of systems for 3 organism types; Listeria, Coliforms and Salmonella. All three systems utilise an identical test principle. Bacteria is recovered from the surface of food manufacturing or processing equipment using a pre-moistened swab, which is capable of neutralising commonly employed sanitisers. The sample swab is then transferred into organism specific media.

The swab is broken off into this media (swabs are nicked at 45mm mark so that they can easily be broken off). The test media are then incubated at 35-37°C for 18-24 hours for Coliforms and Salmonella, and 30°C 30-48 hours for Listeria (earlier positive results are available at 24 hours for *L. monocytogenes*). If the specific organism are present on the sample swabs, bacterial growth will cause the colour of the media to change.

### Test reactions





### Path-Check Salmonella

- Incubation at 35-37°C for 18-24 hours
- Storage 2-8°C



### Path-Check Listeria

- Incubation at 25°C for 24 -48 hours
- Storage 2-8°C



### Path-Check Coliform

- Incubation at 35-37°C for 18-24 hours
- Storage 2-8°C



Part Number	Description		Quantity
MGPATHS100	Path-Check Salmonella Kit	<a href="#">Shop</a>	100
MGPATHS25	Path-Check Salmonella Kit	<a href="#">Shop</a>	25
MGPATHL100	Path-Check Listeria Kit	<a href="#">Shop</a>	100
MGPATHL25	Path-Check Listeria Kit	<a href="#">Shop</a>	25
MGPATHC100	Path-Check Coliform Kit	<a href="#">Shop</a>	100
MGPATHC25	Path-Check Coliform Kit	<a href="#">Shop</a>	25
PCS100	Pre moistened swabs	<a href="#">Shop</a>	100



# CROSS CHECK | Acid Phosphatase



CrossCheck is a rapid bioluminogenic test for the determination of Acid Phosphatase (ACP) activity. CrossCheck can quickly gauge whether surfaces and utensils, even those that appear visibly clean, retain potentially hazardous uncooked residue. CrossCheck can also be used directly on cooked products to verify thermal processing and food contact surfaces to measure raw meat residues and cross contamination hazards.

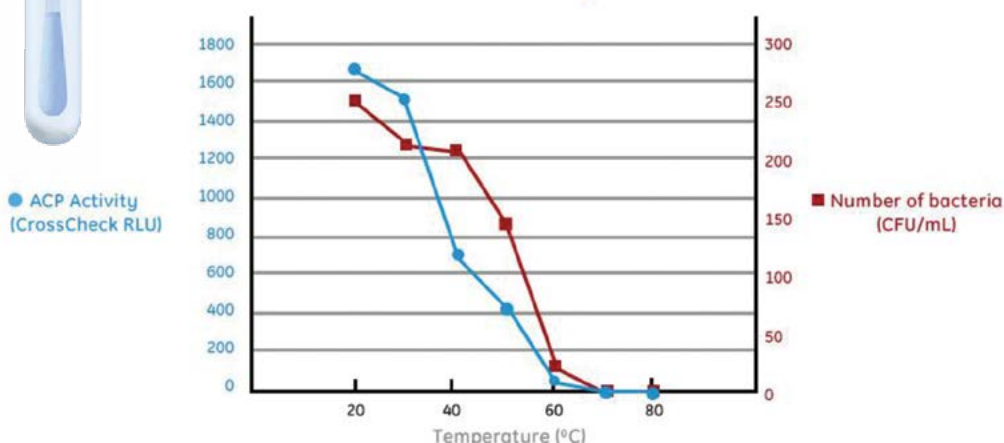
## Benefits

- Results in 2-5 minutes
- 2 minute quick-test or 5 minute enhanced sensitivity test methods
- Liquid –stable chemistry eliminates the need to reconstitute a pellet, giving more accurate results with less variation
- Unique patented Snap-Valve™ design reduces user variation
- Pre-wetted swab breaks through biofilm and aids in sample collection
- Environmentally conscious design uses 50% less plastic than other tests
- Test devices are 100% recyclable
- 12 month shelf life at refrigerated temperatures (2-8°C) \*  
(\* From date of manufacturing).

## Sensitivity

- Detects to 0.1% or less of raw meat or fish
- Optional incubation for enhanced sensitivity

## Cooking Inactivates Acid Phosphatase & Bacteria



Part Number	Description	Quantity
HG-CX3000	CrossCheck Acid Phosphatase Detection Test <a href="#">Shop</a>	100





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# ZymoSnap ALP | Alkaline Phosphatase Test



ZymoSnap ALP rapidly measures alkaline phosphatase activity in dairy products to verify pasteurization. The test has the capability to detect below the regulatory limit (350mU/L) down to 100mU/L. The device features an all-in-one design that provides simplicity, convenience, and repeatability. In addition, the clear definitive results avoid delays and additional costs of retesting as seen with other ALP test methods. ZymoSnap ALP has been validated for a variety of milks, flavored milks, creams, and more.

### Benefits

- All-in-one device
- 15 second read time
- Large sample throughput (30 tests per hour)
- 10 minute assay
- Suitable for milk products such as flavored milks, cream, yogurts, shakes
- Compatible with EnSURE luminometer
- 12 month shelf life at refrigerated temperatures (2-8°C) \*  
(\* From date of manufacturing).

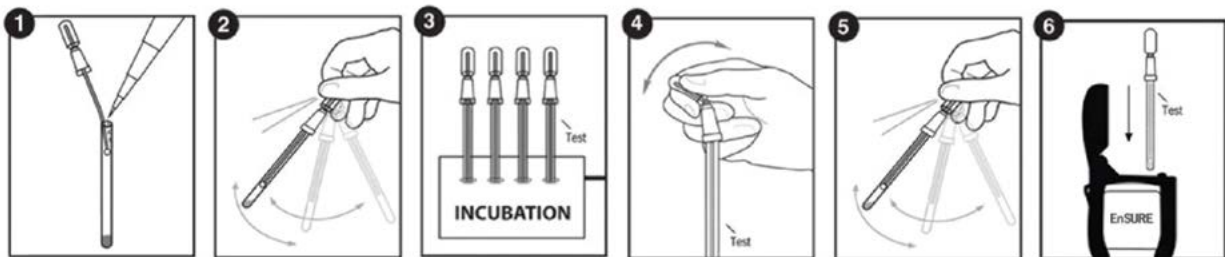
### Sensitivity

- Detects down to 100mU/L
- Clear, reliable results even at low levels



Positive Control Kit for ZymoSnap ALP Alkaline Phosphatase Test

### ZymoSnap ALP Procedure



Part Number	Description		Quantity
HG-ZS-ALP-100	ZymoSnap ALP: Alkaline Phosphatase Detection Test	<a href="#">Shop</a>	100
HG-ZSALP-PC	Zymosnap Alkaline Phosphatase Positive Control	<a href="#">Shop</a>	100





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# PRO-Clean™ | Protein Residue Test



PRO-Clean quickly and accurately monitors the cleanliness of surfaces to help ensure product quality by detecting protein residues left behind after cleaning. Simply swab a surface, release the reagent, and if protein residue is present the reagent will turn purple. The more contamination present, the quicker and darker the color change to purple. PRO-Clean quickly validates the hygiene of a surface, allowing immediate corrective action to be taken if necessary.

## Benefits

- Results in 1-10 minutes
- Easy-to-interpret color change – no instrumentation required
- Unique liquid stable chemistry produces consistent results
- Pre-moistened swab provides reliable collection, recovery, and detection to ensure consistent results
- Low carbon footprint devices are 100% recyclable
- 18 month shelf life at room or refrigerated temperatures (2-25°C) \*  
(\* From date of manufacturing).

## Sensitivity

- Detects 80 µg protein after 1 minute
- Detects 50 µg protein after 5 minutes
- Detects 20 µg protein after 10 minutes
- Disregard any color change after 10 minutes

## Color Results



Part Number	Description	Quantity
HG-PRO100	PRO-Clean (Protein) Colour Hygiene Test <a href="#">Shop</a>	100
HG-PRO2000B	PRO-Clean (Protein) Colour Hygiene Test Bulk <a href="#">Shop</a>	2000





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# SpotCheck Plus™ | Food Safety Residue



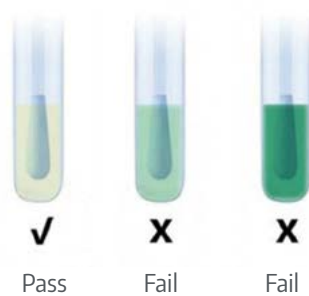
SpotCheck Plus detects the presence of glucose and lactose on a surface as a rapid indicator of surface hygiene. Simply swab a surface, release the reagent, and if any residue containing glucose and/or lactose is present, the reagent will turn green. The more contamination present, the quicker the color change and darker the color. SpotCheck Plus instantly validates the hygiene of a surface, allowing immediate corrective action to be taken if necessary. If it turns green, it isn't clean!

### Benefits

- All-in-one device
  - Easy-to-interpret color results
  - No instrumentation necessary
  - Results in 60 seconds
  - Pre-moistened swab for reliable collection, recovery, and detection
  - 100% recyclable
  - 18 month shelf life at refrigerated temperatures (2-8°C) \*
  - 4 week shelf life at room temperatures (21-25°C) \*
- (\* From date of manufacturing).

### Sensitivity

- Detects down to 2.5 µmoles D-glucose or 5.0 µmoles lactose in 60 seconds
- Disregard any color change after 2 minutes



Part Number	Description	Quantity
HG-GL100	Spotcheck Plus (Glucose+Lactose) Colour Hygiene Test <a href="#">Shop</a>	100



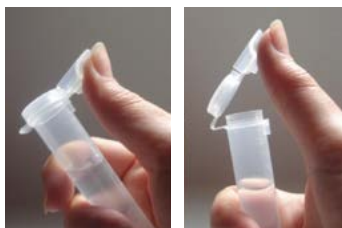


### Pre-filled FlipRight Peptone Water Vials

Peptone water Vials are the perfect complement when used in conjunction with the **Compact Dry System** (to learn more about the Compact Dry please refer to page 3). Practical innovation was built into the design for these new FlipRight Vials. Now featuring a more secure (but easier to open!) locking lid for shipping and storage as well as greater ability to aseptically open and close the vial.

#### Easy, Aseptic Opening

The FlipRight Vial is opened by gently pushing on the underside of the lockdown tab. When the tab is moved upwards, it contacts the lid and then the unique lever design does the difficult lifting part for you, protecting your fingertips from uncomfortable pressure and abrasion and maintaining proper distance from the sterile opening of the vial and its contents.



#### The Lockdown Tab

The lockdown tab is designed so that it can be securely locked into place for shipping and storage, until it is easily and comfortably disengaged for opening. A simple upward “flick” of the lockdown tab with the back of the thumb unlatches the lockdown mechanism.

Part Number	Description	Quantity
FRV9MLMRD	FlipRight MRD, 9ml Peptone Water <a href="#">Shop</a>	100



### Positive Control Kit



Positive Control Kits are used for validating the performance of various hygiena test devices including ATP tests, SpotCheck Plus, MicroSnap Coliform & E.coli and ZymoSnap ALP.

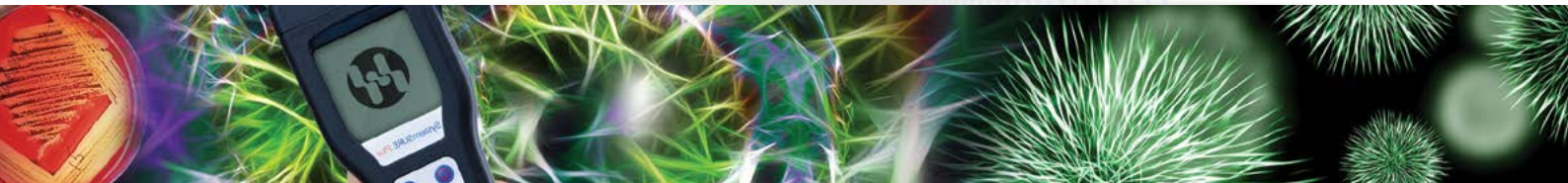
#### ATP & Spotcheck Plus

The ATP Positive Control Kit consists of 25 sealed glass vials containing lyophilized adenosine triphosphate (ATP), Proteins, and sugars to provide predictable positive results.



Part Number	Description	Quantity
HG-CK25	ATP Positive Control Kit - (25 Controls per kit) <a href="#">Shop</a>	25





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