

# Validation Monitoring & Verification Tests 2021







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## Delivery Charges

All Holchem's analytical equipment and consumables have been specifically selected for quality, reliability and are offered at very competitive prices.

Delivery charges are:

UK	£19.95	Republic of Ireland	€24.95
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Prices are correct at the time of publication, although please visit our website for the latest prices, products and additional product information at:  
[www.holchem.co.uk/shop/test-kits-and-inspection-equipment/](http://www.holchem.co.uk/shop/test-kits-and-inspection-equipment/)

## How To Order

Phone: 01706 238520

Email: [engineeringsales@kersia-group.com](mailto:engineeringsales@kersia-group.com)

Web: [www.holchem.co.uk/shop/test-kits-and-inspection-equipment/](http://www.holchem.co.uk/shop/test-kits-and-inspection-equipment/)

For full terms and conditions please visit the Holchem website



# Foreword

At Holchem we deliver innovative and effective hygiene solutions for our customers, providing industry leading technology and systems which reflect customer need, regulatory and sustainability drivers.

One of Holchem's aims is to ensure our customers are provided with effective and reliable test kits and equipment for the validation, verification and ongoing monitoring of cleaning and hygiene tasks, to ensure acceptable levels of performance are achieved. The choice of test will depend on the hazard that is being controlled (microbiological, physical, chemical) and the level of sensitivity required.

Hygiene tasks required to control microbiological and allergenic hazards require validation to demonstrate that they are fit for purpose; indeed, this is a requirement of many retailer audit standards. Such controls also need frequent monitoring and verification to demonstrate their ongoing effectiveness. In addition, other hygiene tasks such as cleaning to control the cross-contamination of food materials between product runs, or hand hygiene procedures, require more routine monitoring and verification, often to a less sensitive level.

Holchem are pleased to offer a wide range of simple, easy to use, robust testing kits and equipment suitable for different applications within our 360° customer service policy. The products offered in the catalogue can be used for the validation, verification and ongoing monitoring of most aspects of cleaning and hygiene within most food and drink manufacturing sites, including:

- Open plant cleaning, cleaning in place (CIP) and automated washing machines
- Chemical concentration checks
- Hand hygiene monitoring
- Air quality monitoring

Further guidance on the environmental sampling of food production areas, allergen management, hand hygiene and the validation of cleaning and disinfection programmes can be obtained from your Gateway support system or [holchem.co.uk](http://holchem.co.uk)

For further information on the equipment and consumables within the catalogue please contact your local Technical Sales Consultant or the Holchem Customer Services team.





# Visual Assessment Devices

## UV Monitoring Tools

### UV 5W High Output LED Torch

**Description:** The UV 5W is a pocket size UV fluorescent inspection torch.

**Recommended for:** The compact UV-5W is a highly rugged pocket torch ideal for hygiene inspections and cleaning validation for quick any-time inspections. Can be used in conjunction with the Blue UV Glow Wax (TEST0089), the UV Glitterbug Lotion (TEST0111), the Glow & Show lotion (TEST0200), the Glow & Show powder (TEST0201) and the Glitterbug gel (TEST0206) for hand wash training and also the UV Shadow Spray (TEST0196) for identifying poor cleaning issues inside vessels and pipework.

It uses the latest in lithium ion battery and ultraviolet LED technology to produce high quality UV Light at a peak wavelength of 370nm.

**Features:**

- High UV-A light intensity
- Narrow beam spread, long throw
- Re-chargeable battery operation
- 370nm peak output – Nichia LED
- Instant UV light output
- Waterproof, lightweight and durable
- Includes wrist strap, pouch, charger and in-car charger adaptor & 2 x Li-ion batteries (the torch requires only one battery at a time so there is a spare).
- Battery charger requires 100 – 240 V AC / 50 – 60 Hz

### 41 LED UV Torch

**Description:** A handheld UV light source for hygiene inspections and cleaning validation for quick any-time inspections.

**Recommended for:** Can be used in conjunction with the Blue UV Glow Wax (TEST0089), the UV Glitterbug Lotion (TEST0111), the Glow & Show lotion (TEST0200), the Glow & Show powder (TEST0201) and the Glitterbug gel (TEST0206) for hand wash training and also the UV Shadow Spray (TEST0196) for identifying poor cleaning issues inside vessels and pipework.

The handheld UV light source consists of an array of 41 high output UV LED's. Unlike other handheld UV light sources, it can be used in ambient light, metres away from the subject matter you are illuminating.



UV 5W Torch



UV Blocking Spectacles



41 LED UV Torch

## LED/UV 410 Lumens Lumitorch

**Description:** A handheld light source that combines a UV setting and an LED setting for hygiene inspections and cleaning validation for quick any-time inspections.

**Recommended for:** This combined LED/UV 410 Lumens Lumitorch is a convenient pocket-sized torch ideal for hygiene inspections to identify areas where gross soiling may remain after cleaning. The LED torch also incorporates the latest UV technology that can be used for highlighting organic and inorganic material that may not be visible with the naked eye and can also be used in conjunction with the Blue UV Glow Wax (TEST0089), the UV Glitterbug Lotion (TEST0111), the Glow & Show lotion (TEST0200), the Glow & Show powder (TEST0201) and the Glitterbug gel (TEST0206) for hand wash training and also the UV Shadow Spray (TEST0196) for identifying poor cleaning issues inside vessels and pipework.

The aluminium torch housing ensures that the torch is lightweight and durable, regardless of the environment that it is used in and offers a 50 metre light beam, perfect for quick and efficient inspections when required.

### Features and Benefits:

- The LED/UV 410 Lumens Lumitorch uses a 1 watt extra strong LED to offer a bright white light with a zoom feature for closer lighting inspection
- Offering a lightweight and portable design, this torch is ideal for illuminating small and confined spaces where standard torches can't reach and has 50m beam reach for greater forward visibility
- It uses the latest UV light technology
- Single button on the end of the penlight to switch it on or off so that it doesn't accidentally get turned off on the side of the torch while in use, as well as single handed use
- This UV torch is manufactured in durable aluminium casing and is water and shock resistant
- Lightweight aluminium housing allows for easy transportation without weighing the user down
- Light duration: 170 hours
- IP65 rated
- Supplied with 3 x 1.5V AAA batteries



LED/UV 410  
Lumens Lumitorch

## Blue UV Glow Wax

**Description:** A fluorescing wax for use with UV torches

**Recommended for:** A non-hazardous petroleum based gel which can be applied to surfaces scheduled for cleaning, for training purposes. It will be virtually invisible and only revealed upon exposure to UV light, when it will glow blue. The wax should be inspected under UV light to check for application, following scheduled cleaning, surfaces should be re-inspected under UV light to determine if UV Glow Wax has been removed. Complete removal indicates GOOD quality of cleaning and compliance with the cleaning protocol, partial or non-removal indicates POOR quality of cleaning and non-compliance with the cleaning protocol.

NB – The glow wax should be thoroughly removed from surfaces after use.



Blue UV Glow Wax

Item	Order Code	Quantity	Price
UV 5W Torch	TEST0055	1	£339.00
UV Blocking Spectacles	TEST0056	1	£42.00
41 LED UV Torch	TEST0195	1	£29.00
LED/UV 410 Lumens Lumitorch	TEST0210	1	£75.00
Blue UV Glow Wax	TEST0089	1	£8.00

# UV Training Kit

## Glow and Show Training Kit

**Description:** Cross contamination UV training kit.

**Recommended for:** The Glow and Show kit is predominantly designed and aimed at teaching people how contaminants and infections are spread via not washing your hands correctly, by basically demonstrating cross contamination. See below for a more detailed description of how to use these kits.



### The main kit consists of:

- 1 x Handheld UV light source
- 1 x Goggles & Case\*
- 1 x Powder 2oz
- 1 x Applicator brush
- 1 x Wet wipes
- 1 x Batteries = 2 x pack of 4
- 1 x Lotion 50ml
- 1 x Instructions
- 1 x Carry Bag

The handheld UV light source consists of an array of 41 high output UV LED's. Unlike other handheld UV light sources, it can be used in ambient light, metres away from the subject matter you are illuminating.

How to use the powder, lotion, applicator brush & wet wipes

- The powder can be dusted on a sheet of paper and handed around the room. A check with the UV handheld light source and you will be able to demonstrate how easily powder (simulated germs) can be spread from person to person.
- The powder can also be spread or dusted on to a persons hand, they can then touch other parts of a room (door handles etc) and the trainer can demonstrate how easily cross contamination is spread.
- Similarly, you could dust it on to a work surface and ask someone to clean it with the convenient wet wipes supplied in this kit. Again, the UV light will show up any areas that have been missed.
- You could also use the lotion in this way to highlight cross contamination.
- When the training is finished, the wipes can then be used to wipe any remaining residue from the lotion or powder from the surfaces.

All of the products above come in an ergonomically designed convenient carry case (pictured above) so that demonstrations can easily be carried out wherever there is a need.

\*it is advised that the demonstrator wears goggles when using the handheld UV light source. Do not stare directly in to the UV light source.

## Glow and Show Applicator Brush

**Description:** A brush used for applying Glow & Show Powder for cross contamination training purposes.

**Recommended for:** The brush is to be used for dusting Glow & Show powder (TEST0201) on to surfaces to demonstrate how easily the powder (simulated germs) can be spread from person to person.

## Glow and Show Torch & UV Goggles

**Description:** UV torch and protective goggles for visual inspections.

**Recommended for:** The handheld UV light source consists of an array of 41 high output UV LEDs, which, unlike other handheld UV light sources, it can be used in ambient light, meters away from the subject matter that you are illuminating. The torch can be used in conjunction with the Blue UV Glow Wax (TEST0089), the UV Glitterbug Lotion (TEST0111), the Glow & Show lotion (TEST0200) and the Glow & Show powder (TEST0201).

\*It is advised that the demonstrator wears goggles when using the Handheld UV light source. Do not stare directly in to the UV light source.

## Glow & Show UV Lotion (50ml)

**Description:** UV fluorescing lotion.

**Recommended for:** The Glow & Show lotion is used to demonstrate the cross contamination of germs or to represent surface contamination with a portable UV torch (TEST0195 or TEST0055).

## Glow & Show UV Powder (57g)

**Description:** UV fluorescing powder.

**Recommended for:** The Glow & Show UV powder is used to see how contamination and germs can travel. Perfect for training purposes as a valuable tool for teaching proper hand-hygiene techniques.

Simply dust the powder on to a sheet of paper and hand it round the room. A check with a UV torch (TEST0195 or TEST0055) and you can demonstrate how easily the powder (or germs) can be spread from person to person. Alternatively, spread the powder on to a work surface or on to door handles and follow the potential cross contamination trail.

Item	Order Code	Quantity	Price
Glow & Show Training Kit	TEST0199	1	£90.00
Glow & Show Applicator Brush	TEST0198	1	£5.00
Glow & Show Torch & UV Goggles	TEST0197	1	£44.00
Glow & Show UV Lotion	TEST0200	1	£6.00
Glow & Show UV Powder	TEST0201	1	£6.00

# LED Torches

## 450 Lumens Powerful LED Torch

**Description:** 450 Lumens Powerful LED torch to aid visual inspections.

**Recommended for:** The Led Lenser P7 professional torch has a 450-lumen lighting power and a range of 300m, ideal for visual hygiene inspections.

This torch features the patented Advanced Focus System (AFS) that uniquely combines lens and reflector to deliver a wide superior homogenous flood beam for close-up visibility, together with a sharply focused spot beam for long distance visibility. To make the best use of the AFS, it incorporates Speed Focus, which allows quick single-handed focusing from flood to spot beam. The lens is reconfigured to increase beam angle. This torch incorporates a Dynamic Switch™ on the end cap allowing three levels of brightness (power, low power and boost). This tactical style switch is larger, more responsive and easier to use with gloves. It is smartly finished with a new matt black finish over aircraft-grade aluminium which improves grip.

### Supplied with:

- Belt pouch, wrist-strap and 4 x AAA Duracell® batteries.
- Ledlenser® (Ledlenser, the world's leading brand of technologically advanced lighting products with patented reflector systems and high-quality components for bright and energy-efficient lights. Ledlenser has applied its expertise to handheld lights for use where a convenient and powerful light source is required).

### Features and Benefits:

- Energy efficient power and LED light chip
- Recalibrated lens for a wider light beam angle
- Robust, yet lightweight aircraft-grade aluminium housing with new matt finish
- User-friendly modular design
- Corrosion-resistant gold-plated contacts for better conductivity
- Run time is up to 25 hours at low power
- 4 x AAA Alkaline NiMH 1.2V battery
- Weight is 175g

### Certifications

- IP54 rated
- CREE certified

Item	Order Code	Quantity	Price
450 Lumens Powerful LED torch	TEST0211	1	£45.99



450 Lumens Powerful LED Torch

## LED 200 Lumens Head Torch

**Description:** 200 Lumen LED head torch to aid visual inspections

**Recommended for:** The 200 lumen Cree LED headtorch with spot beam and red flood functionality is ideal for allowing hygiene staff and auditors to illuminate areas requiring cleaning and inspection. This headtorch features a 70° wider lighting angle, adjustable headband and dimming functionality.

**Features Include:**

- 200 Lumens white cree LED
- 2 x Red LEDs for night vision
- Easy-press micro switch
- Adjustable headband

Item	Order Code	Quantity	Price
200 Lumen LED head torch	TEST0207	1	£27.00



LED 200 Lumens Head Torch

# Inspection Cameras

## Ridgid Seesnake Micro Explorer Inspection Camera CA-350

**Description:** The Ridgid Seesnake Micro Explorer Inspection Camera CA-350 is a pipe work inspection camera.

**Recommended for:** The Ridgid Seesnake Micro Explorer Inspection Camera CA-350 is ideal for inspecting pipe work internals and hard to reach areas to validate cleaning.

**Features:**

- Comfortable pistol-grip design with one-hand controls.
- Large screen making it easier to detect and diagnose the unreachable.
- Video and still Images are captured to on-board memory (236MB) or to SD Card (Max 32GB).
- Integrated speaker/microphone to aid inspection reports.
- 3 foot, 17mm diameter camera cable head with 4 super bright adjustable LEDs.
- Image zoom and 360° rotation function.
- Power Source - rechargeable Lithium Ion Battery or AC Charger for mains power.
- Includes a battery, charger, USB cable, hook, magnet, mirror accessories, RCA cable, AC adapter, headset with microphone and an 8GB SD card.



Extension cables can be fitted to the Ridgid Micro Inspection Camera System up to 30 feet, these are available in either 3' or 6' lengths. The CA-350 camera can also be used with the 20 metre MicroDrain reel for inspecting drains at the end of cleaning. This features a 22mm camera head and a 20 metre cable length within a durable easy to clean casing.



Item	Order Code	Quantity	Price
Ridgid Seesnake Micro Explorer Inspection Camera CA-350	TEST0117/01	1	£449.00
Ridgid SeeSnake 3 ft Extension Cable	TEST0118	1	£35.00
Ridgid SeeSnake 6 ft Extension Cable	TEST0119	1	£67.00
Ridgid MicroDrain 20m Reel with CA-350 Camera	TEST0120/01	1	£2,999.00

## Telescopic Pole Search Camera 4 Metre

**Description:** An inspection camera for inspecting hygiene standards in difficult to reach high level areas.

**Recommended for:** Inspecting high level surfaces to verify hygiene standards.

The DS100 can be a Pole mounted or free-standing system allowing the operator complete flexibility of movement whilst carrying out inspections. The Battery pack provides up to 8 hours of constant use and multiple packs can be carried for continual inspections.

The Infra-Red Camera provides clear high-resolution colour images in daylight and switches to infra-red in low light to provide clear black and white images at distances of up to 50ft. The camera is mounted on a telescopic pole with a collapsed length of 1.2 metres and extends up to 4 metres allowing hygiene inspections without having to worry about working at heights regulations or moving obstacles.

The camera head is fitted with a unique friction joint allowing the head to be articulated between 0° and 110°. Articulation can be achieved manually by adjusting the camera head against the friction joint to the desired angle. Articulation can also be achieved by placing the camera head against a fixed object and pushing or pulling the head to the desired angle. This is a real benefit when carrying out room hygiene inspections as the camera doesn't need to be collapsed to carry out a full inspection.

The monitor has an SD Card slot for capturing Video and Still Images. The system comes complete with an SD Card and will take a maximum of a 32GB card.

Camera Field of View - 90°.

The kit is packed in a rugged shoulder bag and hard case for easy transportation and deployment.

### Includes:

- 5" TFT Colour Monitor.
- 1m Curly Cable.
- 4m Telescopic Camera Pole.
- Pole Slip Bracket.
- SD Card.
- Battery Charger 12V 230Vac 50Hz UK3 Pin.
- Hard Case.



Item	Order Code	Quantity	Price
Telescopic Pole Search Camera 4 Metre	TEST0174	1	£1,999.00

## USB Video Borescope with Wireless Display

**Description:** A portable video borescope for inspecting vessels and pipework

**Recommended for:** Inspecting pipework and vessel internals to validate and verify cleaning results.

This portable video Borescope comes with a 90mm (3.5") TFT wireless colour display. The 9mm camera and 1m flexible gooseneck are water-resistant. Using a microSD card up to 32GB (not supplied) it can capture still images (JPEG) or video (AVI) for download to a PC or laptop with a date and time stamp. These can then be saved and used as attachments to emails or reports



### Features:

- 90mm (3.5") TFT wireless colour display (up to 10m transmission)
- Water-resistant IP-67 9mm camera head - dust-protected and protected against water jetting
- Glare free close up and wide field of view (45°)
- 4 Adjustable dual bright white LED lights
- 1m flexible gooseneck can be pre-formed to a configured shape
- Clip-on mirror, magnet and hook attachments for object retrieval
- PAL video output and cable
- The VB-48 optional camera is HD Format giving hi-contrast and exceptionally clear sharp images. Supplied with 1m gooseneck 9mm camera, USB download cable, AV out cable, clip-on mirror, magnet and hook attachments, carry case and AC/DC mains power charger.

Item	Order Code	Quantity	Price
USB Video Borescope	TEST0154	1	£220.00

## ATP VB-END USB Inspection Cameras

**Description:** A USB pipe work inspection camera

**Recommended for:** The ATP VB-END USB inspection cameras is ideal for inspecting pipe work internals to validate cleaning.

The camera has a 5.5mm diameter waterproof camera head that will help diagnose issues with pipe work cleaning. This camera is easy to use. Just connect the camera directly to the computer or laptop via the USB port. The camera is powered from the USB port connection.

There are 6 adjustable ultra-bright LED lights. The data capture facility allows still images or video to be captured.

### Features:

- Semi-rigid flexible probe can be pre-formed to access hard to reach areas
- Water-proof camera head (IP67)
- Powered by USB interface for direct connection to a PC or Laptop
- Light adjustment control for 6 ultra-bright LED's
- Capture video images and stills which can be attached to emails or reports
- Supplied with software
- Supplied with a cable length of 5 metres



ATP VB-END5

Item	Order Code	Quantity	Price
ATP VB-END5 5 m USB Inspection Camera	TEST0121	1	£39.00
USB Inspection Camera			

## 20 Metre Pipe Inspection Camera System

**Description:** A portable video borescope for inspecting up to 20 metre lengths of pipework

**Recommended for:** Inspecting pipework and drains

The AVB-710 Portable Pipe Inspection Camera System has a 20-metre long fibreglass rod cable. The 23mm heavy-duty stainless-steel camera head has 12 adjustable white ultra-bright LED lights with a scratch proof sapphire glass camera lens. It is water and dust proof to IP-68 capable of withstanding pressures up to 1 bar (under water 10m).

They are ideal for inspection applications in general floor drains and pipework, boiler and heat exchanger tubes, steam feed lines, chimneys, ducting etc.

The cable frame is made of stainless steel. It is rugged and built to withstand the rigours of pipe inspections in the harshest of working conditions.

The whole system is powered by a 12V 14W LI-ION battery. The charge time is 5 hours and has a working capacity of over 4 hours.

There are 2 camera head skirts of 40mm and 80mm to aid centralisation of the camera head in various pipe sizes and negotiate various bends.

The display and control monitor have a 315 x 40mm high contrast and high resolution TFT colour display with up, down, left and right adjustment.

Incorporated is an 8GB SD Card data storage system with date and time stamp. This can be used to capture still or video images with the option of voice over recording and / or text edit reporting via the keyboard. These data recordings can be saved and can be attached to reports or emails.



Item	Order Code	Quantity	Price
20 Metre Pipe Inspection Camera System	TEST0153	1	£1,300.00



## Sony DSC-W800 Digital Camera

**Description:** A digital camera for capturing still images and video during hygiene inspections.

**Recommended for:** The Sony DSC-W800B is a “point and shoot” digital camera, which has super HAD CCD 20.1mp, capable of capturing the whole scene with a 26mm wide-angle lens. The W800 camera is compact with a sleek design. It can capture crisp, smooth footage in an instant and at the press of a button, you can record blur-free 720 HD images with digital sound.

### Features and Benefits:

- 10x digital zoom
- 5cm macro focus distance
- Advanced flash
- Dedicated movie button
- Get creative with Picture Effect
- Panorama mode
- Screen size 2.7in
- Sony lens with 5x optical zoom

### Specifications:

- Model DSC-W800
- Camera Type Compact
- Colour Black
- Megapixels 20.1MP
- Optical Zoom 5X
- Digital Zoom 10X
- Sensor 1/2.3 CMOS
- LCD Size 2.7in
- Touchscreen No
- Video Resolution 1280 x 720
- Built-In Flash Yes
- Depth 54mm
- WiFi No
- Width 50mm
- Dimensions 50 x 22 x 54mm
- Weight 109g (without Battery), 125g (with Battery)



Item	Order Code	Quantity	Price
Sony DSC-W800 Digital Camera	TEST0209	1	£115.00

# Inspection Mirrors

## 230mm Lightweight Lookunder Mirror

**Description:** A lightweight mirror for assisting with the visual inspections of difficult to access areas on equipment.

**Recommended for:** The 230mm Lightweight Lookunder Mirror is designed for viewing and inspecting on top, around and underneath equipment areas which are difficult to access and hard to see.

The ACM (Aluminium Composite) back and impact resistant acrylic face make it easy to handle but strong enough to take some knocks. The 1 metre long collapsible handle makes viewing under or above areas safer and folds away for easy storage and transportation.

Item	Order Code	Quantity	Price
230mm Lightweight Lookunder Mirror	TEST0139	1	£158.00



## 230mm Heavy Duty Lookunder Mirror with Base Light

**Description:** A heavy duty mirror incorporating base lights for assisting with the visual inspections of difficult to access areas on equipment.

**Recommended for:** The 230mm Heavy Duty Lookunder Mirror is durable, lightweight and suitable for many tough inspection environments.

The telescopic heavy-duty handle adjusts to different lengths and stays securely in place with the spring loaded locking pin and the LED Base Light is adjustable so you can view into any low lit areas.

This high quality mirror makes everything visible and can be used to view below, above and around just about any hard to see area.

Item	Order Code	Quantity	Price
230mm Heavy Duty Lookunder Mirror	TEST0140	1	£251.00



## Telescopic Inspection Mirror with LED Lights

**Description:** A portable telescopic inspection mirror with LED lights to aid visual inspections in difficult to access areas.

**Recommended for:** An LED telescopic shatterproof mirror which is an ideal tool for carrying out visual hygiene inspections in dark and difficult to access areas.

The mirror can be positioned to nearly any angle and has a cushion grip extendable shaft which extends from 285 to 875mm, it also features a 360 degree swivel double ball joint for extra viewing capabilities.

The 3 LED lights help illuminate difficult to see areas and are operated by a simple on/off switch and powered by 2 x CR2032 batteries (included). The mirror size is 50mm (W) x 80mm (L)

Item	Order Code	Quantity	Price
Telescopic Inspection Mirror With LED Lights	TEST0208	1	£9.99



# Traditional Microbiological Sampling Devices

## Swabs & Sponges

### 10ml Hygiene Swab with Neutralising Buffer

**Description:** 10ml neutralising buffer in tube, polystyrene shaft with viscose tip swab in peel pouch.

**Recommended for:** A convenient all in one sampling kit for hygiene and environmental monitoring of equipment or surfaces where traces of disinfectants are possibly present.

Neutralising fluid will eliminate any traces of sanitisers or disinfectants remaining on the sample area, allowing confident and accurate enumeration of bioburden.

Maintains cell numbers for exact enumeration of microorganisms recovered from surfaces and equipment.

White flexible viscose swab for hard to reach areas, still supplies maximum recovery without any inhibition.

Supplied in accurate 10ml volumes (conforms to recommended standards) allowing larger sample to be analysed.

Neutralises - Holchem Peroxides and derivatives, Phenols, Quaternary Ammonium Compounds, Amphoteric, Chlorines and Associated Halogens.

Item	Order Code	Quantity	Price
Hygiene Swab with Neutralising Buffer	TEST0212	Box of 100	£60.00

### 30cm Jumbo Blue Foam Swab with Polypropylene (flexible) Shaft, in Tube

**Description:** Jumbo blue foam swab with polypropylene (flexible) shaft, in tube.

**Recommended for:** Tricky or hard to reach sampling due to flexible durable shaft, ideal for sampling large areas and down small pipes or curved drains. Ideal for swabbing pipes after CIP. If sampling a surface following disinfectant application a neutralising buffer will be required.

Item	Order Code	Quantity	Price
30cm Jumbo Blue Foam Swab	TEST0060	Box of 100	£139.00



Pack size: 100 swabs  
Shelf life: 2 years at room or refrigerated temp (2 – 25 °C)



Pack size: 100 swabs  
Shelf life: 2 years at room or refrigerated temp (2 – 25 °C)

## 10 x 10cm<sup>2</sup> Sterile Plastic Swabbing Template

**Description:** 10 x 10cm<sup>2</sup> sterile plastic swabbing template. Incorporates a press plate for easy sampling.

**Recommended for:** Use with hygiene swabs and sponges. Ideal as a training aid for accurate and consistent surface sampling to conform to recognised standards. The templates should be disposed of after an area has been sampled.



Item	Order Code	Quantity	Price
10 x 10cm <sup>2</sup> Sterile Plastic Swabbing Template	TEST0061	Box of 40	£59.00

Pack size: 40 templates  
Shelf life: 2 years at room or refrigerated temp (2 – 25 °C)

## Hygiene Sponge Sampling Kits Dosed with Neutralising Buffer

**Description:** Blue sampling sponge in an easy to open stomacher pouch dosed with neutralising buffer.

**Recommended for:** Environmental and hygiene monitoring where chemical residue neutralisation is desired. They are ideal for surface sampling large areas for hygiene monitoring and control programs e.g. pathogen environmental sample plans. The sterile sample bag eliminates the need to use sterile gloves handling the sponge.



Item	Order Code	Quantity	Price
Hygiene Sponge Sampling Kits Dosed with Neutralising Buffer	TEST0062	Box of 200	£229.00

Pack size: 200 sponges  
Shelf life: 12 months at room or refrigerated temp (2 – 25 °C)



# Microbiological Sampling Media

## Dipslides

**Description:** Microbiological dipslides for simple surface contamination assessments.

**Recommended for:** Environmental surface microbiological monitoring.

Dipslides have a large, flexible plastic paddle and are contained within a strong shatterproof, transparent tube.

Rose Bengal agar dipslides are for yeast and mould contamination detection on surfaces.

A dual sided dipslide to allow multiple contamination testing with one test is also available, containing plate count and VRBG agar for TVC and Enterobacteriaceae surface contamination detection.

Dipslides require incubation (TEST0227 20 litre mini digital incubator).



## Plated Media

**Description:** High quality bespoke formulations of ready to use plated culture media

**Recommended for:** For use with the MicroBio MB1 air sampler.

Dichloran Rose Bengal Chloramphenicol Agar (DRBCA) are for yeast and mould contamination detection within the air.

Nutrient Agar is a non-selective media for total microbiological contamination detection within the air.

Plated media will require incubation (TEST0227 20 litre mini digital incubator).



Item	Order Code	Quantity	Price
Rose Bengal Agar Dip Slide	TEST0225	Box of 10	£ 15.00
Plate Count & VRBG Agar Dip Slide	TEST0226	Box of 10	£ 22.00
DRBCA Agar Plates	TEST0223	Box of 10	£9.00
Nutrient Agar Plates	TEST0224	Box of 10	£ 9.00
20L Mini Digital Incubator	TEST0227	1	£550.00



# Air Sampling

## MicroBio MB1 Air Sampler

**Description:** The MicroBio MB1 bio aerosol sampler is the simplest to use and most economical microbial air sampler of its kind.

**Recommended for:** The MicroBio MB1 bioaerosol sampler is capable of using both a 90mm petri dish (400 and 220 hole head versions) or 55 mm contact plates (only 220 hole head version). Using standard readily available consumables at low cost with a variety of media makes the MicroBio MB1 an economical instrument to use. The MicroBio MB1 air sampler is ideal for providing an early warning of problems in environments such as a high risk food factory and for sampling the air for allergen transfer. The MB1 now features a delay start feature to allow the air sampling to commence only when all personnel have left the area being sampled.

Supplied with the MB1 Bio aerosol Sampler:

- Petri dish and contact plate spring sets
- Stainless steel sampling head
- Printed operating manual
- Padded carry bag
- Multi-voltage world-wide charger with international plugs and 12V in-car plug
- Ansmann maxE NiMH cells – pre-charged so the MB1 is ready to use out of the box
- Certificate of Calibration

**NB:** Please note petri dishes are not included.

The MicroBio MB1 can be purchased with the option of one of two types of sampling heads (Please indicate which type is preferred when ordering). The MicroBio MB1 will be calibrated for use with the selected head. If swapping to another head type, the MicroBio MB1 must be re-calibrated:

- 220 x 1 mm hole stainless steel head - This is the standard head sold with the MicroBio MB1 air sampler. It is designed as a dual purpose head for both 55/60mm contact plates or up to 90mm Petri dishes. The d50 cut-off point of 1.7µm and has a jet velocity of 9.63 m/s. It is the ideal head for general purpose sampling of air quality within food manufacturing environments.
- 400 x 0.7 mm hole anodised aluminium head - Available as a no-cost option, this head provides full coverage of 90mm Petri dishes with a d50 point of 1.35µm and air jet velocity of 10.7 m/s. These heads are ideal for use in areas needed higher sensitivity of collection.



Item	Order Code	Quantity	Price
MicroBio MB1	TEST0064	1	£740.00
MicroBio MB1 Validation Kit	TEST0137	1	£529.00
MicroBio MB1 Calibration Service		1	£109.00
DRBCA Agar Plates	TEST0223	Box of 10	£9.00
Nutrient Agar Plates	TEST0224	Box of 10	£9.00
20L Mini Digital Incubator	TEST0227	1	£550.00



# Rapid Surface Hygiene Tests

## ATP Testing

### SystemSURE™ Plus Luminometer

**Description:** An easy-to-use, robust, ATP monitoring system.

**Recommended for:** Incorporating ATP monitoring into pre-operative equipment inspection and change over cleaning verification. Personnel can verify equipment cleanliness in seconds.

SystemSURE™ is compatible with:

UltraSnap™ – surface ATP

AquaSnap™ – liquid ATP

SuperSnap™ - high sensitivity surface ATP

The System SURE™ Plus makes it easy to manage all your test locations by storing up to 251 locations in an organised group called a Test Plan.

SystemSURE™ Plus uses a state-of-the-art Photodiode sensor technology that enables superior sensitivity and stability over bulky Photomultiplier Tube (PMT) sensors.

SystemSURE™ Plus is provided with SUREtrend™ data analysis software that allows you to analyse and trend historical data, and it's free with every SystemSURE™ Plus luminometer.



Swab shelf life: 12 months at refrigerated temperatures (2 – 8 °C) & 4 week shelf life at room temperatures (21 -25°C)

Item	Order Code	Quantity	Price
SystemSURE™ Plus Luminometer	TEST0065	1	£1,109.00
UltraSnap™	TEST0066	Box of 100	£173.00
SuperSnap™	TEST0071	Box of 100	£212.00
AquaSnap™	TEST0067	Box of 100	£196.00
Luminometer Calibration Kit	TEST0126	1	£249.00
ATP Positive Control Kit	TEST0127	Box 25 vials	£89.00
LED Calibration Control Rod	TEST0190	1	£449.00

## EnSURE™ Touch Luminometer

EnSURE™ Touch is the next-generation quality monitoring system. It provides rapid and accurate sanitation verification to support your quality management programs.

Featuring a 5-inch touch screen, wireless sync technology, and cloud-based software, the EnSURE™ Touch is designed to adapt to your workplace and provides the data you need for complex multi-location operations, audit and risk management, and recall prevention.

The Hygiene EnSURE™ Touch is a quality monitoring system that uses one instrument platform to collect, analyse, and report from multiple quality indicators.

The EnSURE™ Touch 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 rapid microorganism tests for environmental monitoring and finished product testing.

EnSURE™ measures tests for:

- ATP from surface and liquid samples (UltraSnap™ and AquaSnap™ )
- High sensitivity ATP/Allergen prevention (SuperSnap™)
- Total Viable Count, Enterobacteriaceae, Coliform, E.coli (MicroSnap™)

EnSURE™ Touch's responsive, shatter-proof touchscreen design puts all the functionality and features of Hygiene's ATP Monitoring Systems at your fingertips.

### In just a few touches you can:

- Run a quick test.
- Add and edit users.
- Search through plans, locations, and users.
- Perform a calibration check.
- Run a re-test.
- Sync to SureTrend™ Cloud.
- Change screen and battery settings.
- Connect to Wi-Fi.
- Share your screen with Hygiene Technical Support.
- View trend analysis and reports.
- Display results in competitor RLU limits.
- Advanced settings allow EnSURE™ Touch users to add valuable data such as room number, cleaning personnel, and cleaning products used to each test, which provides greater insight when evaluating processes, performance, and personnel.

### Features & Benefits:

- Advanced photodiode technology and unique chemistry for maximum sensitivity and durability.
- Intuitive smart navigation makes it easy for anyone to use.
- Functions like a smartphone.
- USB or Wi-Fi Sync capability.
- Supports multiple languages.
- Responsive 5-inch shatter-proof touch screen.
- Train remote teams with built-in screen sharing capability.
- Built-in tilt sensor for more accurate readings.
- Auto shut-off for smart battery management.
- Simulate competitor upper and lower RLU limits.

Swab shelf life: 12 months at refrigerated temperatures (2 – 8 °C)



Item	Order Code	Quantity	Price
EnSure™ Touch Luminometer	TEST0175	1	£1,599.00
UltraSnap™	TEST0066	Box of 100	£173.00
AquaSnap™	TEST0067	Box of 100	£196.00
SuperSnap™	TEST0071	Box of 100	£212.00
Enrichment Swab for Microsnap™ E.coli/Coliforms	TEST0072	Box of 100	£139.00
Enrichment Swab for Microsnap™ Enterobacteriaceae	TEST0073	Box of 100	£139.00
Enrichment Swab for Microsnap™ TVC	TEST0074	Box of 100	£139.00
Detection Device for Coliform	TEST0078	Box of 100	£336.00
Detection Device for Enterobacteriaceae	TEST0079	Box of 100	£336.00
Detection Device for E.coli	TEST0080	Box of 100	£336.00
Detection Device for Total	TEST0081	Box of 100	£336.00
Mini Incubator (requires 12 wells)	TEST0107	1	£284.00
12 Well Block for Mini Incubator	TEST0107/01	1	£102.00
Lab Format Incubator (requires 2 x 35 wells)	TEST0125	1	£320.00
35 Well Block for Lab Format Incubator	TEST0125/02	1	£113.00
Luminometer Calibration Kit	TEST0126	1	£249.00
ATP Positive Control Kit	TEST0127	Box 25 vials	£89.00
LED Calibration Control Rod	TEST0190	1	£449.00



# Microbiological Testing

## InSite™ Rapid Environmental Listeria Test

**Description:** The NEW AND IMPROVED Hygiene InSite™ Rapid Environmental Listeria Test is a simple, easy to use, test for Listeria species.

It is a self-contained test device with a selective growth medium (containing antibiotics, growth enhancers and colour changing compounds specific to Listeria species) which has been recently improved to increase selectivity and detects low numbers of Listeria on stainless steel, ceramic and plastic surfaces. The color-changing medium gives presumptive positive results in as little as 24 hours but requires 48 hours incubation for negative results.

Simply swab the test area and incubate. A change in colour after 24-48 hours of incubation is considered presumptive positive for Listeria species.

A mini incubator and the 12 well block is required (TEST0107 & TEST0107/01 - sold separately) or for larger swab volumes a Lab Format Incubator and two 35 well blocks (TEST0125 & TEST0125/02 - sold separately) can be used to allow up to 70 swabs to be incubated.

No additional sample handling of the sample is necessary.

Item	Order Code	Quantity	Price
100 InSite™ Listeria Swabs	TEST0085	Box of 100	£287.00
Mini Incubator (12 wells)	TEST0107	1	£284.00
12 Well Block for Mini Incubator	TEST0107/01	1	£102.00
Lab format Incubator (requires 2 x 35 wells)	TEST0125	1	£320.00
35 Well Block for Lab Format Incubator	TEST0125/02	1	£113.00



Shelf life: 12 months at refrigerated temperatures (2 – 8 °C)

## InSite™ Rapid Listeria Species & Listeria monocytogenes Test

**Description:** An easy to use, self-contained rapid environmental Listeria species and Listeria monocytogenes test.

**Recommended for:** InSite™ L.mono Glo is an easy-to-use, self-contained, environmental sampling and screening test for Listeria species and Listeria monocytogenes. Each device contains a chromogenic liquid media formulated with antibiotic growth enhancers, colour changing compounds specific to Listeria and fluorescent compounds specific to Listeria monocytogenes. The two-step test changes colour in the presence of Listeria species, while illumination with a UV torch reveals the presence of Listeria monocytogenes. A change in colour after 24-48 hours of incubation is considered presumptive for Listeria species and Listeria monocytogenes when illuminated with a UV torch.

Only a Mini Incubator (TEST0107 & TEST0107/01) or Lab Format Incubator (TEST0125 & TEST0125/02) and a UV torch (TEST0055 or TEST0195) is required, and no additional sample handling of the sample is necessary.

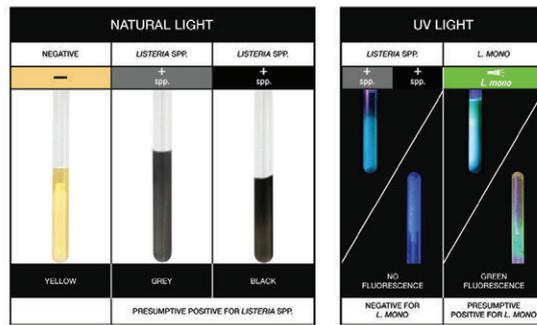
### Features:

- All-in-one sampling and detection for ease of use.
- Large foam swab for maximum sample pickup.
- Foam swab pre-moistened with neutralising buffer to minimise sanitiser interference.
- Presumptive positive results in as little as 24 hours.
- UV fluorescence indicates pathogenic Listeria.
- Easy to interpret results, when Listeria species are present in a sample, the liquid media changes colour from amber to black. If the pathogenic Listeria monocytogenes is present, the media will glow green when UV light from a UV torch is used to illuminate the swab.

A mini incubator and the 12 well block is required (TEST0107 & TEST0107/01 - sold separately) or for larger swab volumes a Lab Format Incubator and two 35 well blocks (TEST0125 & TEST0125/02- sold separately) can be used to allow up to 70 swabs to be incubated.

No additional sample handling of the sample is necessary.





Item	Order Code	Quantity	Price
50 InSite™ L mono Glo Swabs	TEST0192	1	£184.00
UV 5W Torch	TEST0055	1	£339.00
41 LED UV Torch	TEST0195	1	£29.00
LED/UV Lumitorch	TEST0210	1	£75.00
UV Blocking Spectacles	TEST0056	1	£42.00
Mini Incubator (12 wells)	TEST0107	1	£284.00
12 Well Block for Mini Incubator	TEST0107/01	1	£102.00
Lab Format Incubator (requires 2 x 35 wells)	TEST0125	1	£320.00
35 Well Block for Lab Format Incubator	TEST0125/02	1	£113.00

## InSite™ Rapid Environmental Salmonella Test

**Description:** An easy-to-use, self-contained, environmental Salmonella test.

**Recommended for:** Each device contains a liquid medium formulated with growth enhancers and chromogenic compounds selective for Salmonella species. Simply swab the test area and incubate. A change in colour after 24-48 hours of incubation is considered presumptive positive for Salmonella species.

A mini incubator and the 12 well block is required (TEST0107 & TEST0107/01 - sold separately) or for larger swab volumes a Lab Format Incubator and two 35 well blocks (TEST0125 & TEST0125/02 - sold separately) can be used to allow up to 70 swabs to be incubated.

No additional sample handling of the sample is necessary.



Item	Order Code	Quantity	Price
50 InSite™ Salmonella Swabs	TEST0087	Box of 50	£225.00
Mini Incubator (12 wells)	TEST0107	1	£284.00
12 Well Block for Mini Incubator	TEST0107/01	1	£102.00
Lab Format Incubator (requires 2 x 35 wells)	TEST0125	1	£320.00
35 Well Block for Lab Format Incubator	TEST0125/02	1	£113.00

Shelf life: 12 months at refrigerated temperatures (2 – 8 °C)

## MicroSNAP™ Range

**Description:** The MicroSnap™ platform bridges the time gap between ATP and bacterial culture results with convenient, 8-hour or less tests for E. coli, Coliform, Enterobacteriaceae, and TVC.

**Recommended for:** MicroSnap™ can be used to test environmental surfaces, water and other filterable liquids.

Tests consist of an Enrichment Device containing a specific growth medium and a Detection Device containing a bioluminogenic substrate in which the detection reaction is measured within the EnSURE™ Touch Luminometer.

In Step 1 (enrichment) the sample is incubated in growth media in order to increase the number of bacteria. As the number of bacteria increase, more of the diagnostic enzymes are created (beta-galactosidase and beta-glucuronidase), which are required for the bioluminogenic reaction.

The Incubation time of the sample is determined by the level of sensitivity required. After incubation, a small amount of sample is transferred to the Detection Device. In Step 2, the Detection Device is activated and incubated for 10 minutes. At this time, a specific substrate reacts with diagnostic enzymes to produce light. Light is measured in the EnSURE™ Touch Luminometer unit in seconds.

Light output is directly proportional to the initial starting inoculum.



Shelf life: 12 months at refrigerated temperatures (2 – 8 °C)

Item	Order Code	Quantity	Price
EnSure™ Touch Luminometer	TEST0175	1	£1,599.00
Enrichment Swab for MicroSnap™ E. coli/Coliforms	TEST0072	Box of 100	£139.00
Enrichment Swab for MicroSnap™ Enterobacteriaceae	TEST0073	Box of 100	£139.00
Enrichment Swab for MicroSnap™ TVC	TEST0074	Box of 100	£139.00
Detection Device for Coliform	TEST0078	Box of 100	£336.00
Detection Device for Enterobacteriaceae	TEST0079	Box of 100	£336.00
Detection Device for E. coli	TEST0080	Box of 100	£336.00
Detection Device for total viable count	TEST0081	Box of 100	£336.00
Mini Incubator (12 wells)	TEST0107	1	£284.00
12 Well Block for Mini Incubator	TEST0107/01	1	£102.00
Lab Format Incubator (2 x 35 wells)	TEST0125	1	£320.00
35 Well Block for Lab Format Incubator	TEST0125/02	1	£113.00

# Surface Residue Tests

## Rapid Protein Tests

### PRO-Clean™ Protein Residue Test

**Description:** PRO-Clean™ quickly and accurately monitors the cleanliness of surfaces to help ensure product quality by detecting protein residues left behind after cleaning.

**Recommended for:** 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 colour change to purple. PRO-Clean™ quickly validates the hygiene of a surface, allowing immediate corrective action to be taken if necessary.

- Results in 1-10 minutes
- Easy-to-interpret colour change – no instrumentation required
- Unique liquid stable chemistry produces consistent results
- Pre-moistened swab provides reliable collection, recovery, and detection to ensure consistent results

Sensitivity:

Detects 80 µg protein after 1 minute  
 Detects 50 µg protein after 5 minutes  
 Detects 20 µg protein after 10 minutes

Item	Order Code	Quantity	Price
PRO-Clean™	TEST0102	Box of 100	£188.00

Shelf life: 12 months at refrigerated temperatures (2 – 8 °C)



### 3M™ Clean-Trace™ Surface Protein Plus

**Description:** Clean-Trace™ Surface Protein Plus swabs are a fast and easy way to check whether cleaning has been carried out to a satisfactory standard by means of protein detection.

**Recommended for:** Everything you need for a result is contained in the compact device. There is no need for an instrument as results are visual and there is also no need to store the device under refrigerated conditions.

With the unique swab-click-read format and simple colour change technology, this 3M test is very easy to use and implement in a busy production environment. The results are semi-quantitative with four possible colours. The faster the test turns purple the higher the level of contamination on a surface. The test detects protein and other reducing agents, considered as a superior hygiene indicator to glucose as protein may be more difficult to remove from a surface.

Item	Order Code	Quantity	Price	Shelf life: 24 months at room or refrigerated temperatures (2 – 25 °C)
Clean-Trace™ Surface Protein Plus Swabs	SKS00860	Box of 100	£188.00	



## Hygiena AllerSnap™ Protein Swabs

**Recommended for:** High sensitivity protein testing.

**Description:** The Hygiena AllerSnap™ is a quick and easy way to verify the cleanliness of surfaces by detecting protein residues left behind after cleaning.

Simply swab a surface, release the reagent, incubate, and if protein residue is present, the reagent will turn purple. The colour change provides a semi-quantitative measure of surface cleanliness. More contamination produces a quicker and darker colour change to purple.

AllerSnap™ rapidly validates the hygiene of a surface, allowing immediate corrective action to be taken if necessary.

Results in 15-30 minutes (requires a mini incubator - TEST 0107 & 12 well block insert TEST0107/01 or Lab Format Incubator TEST0125 & 2 x 35 well blocks TEST0125/02). Detects 3 µg protein after 30 minutes at 37 °C or 15 minutes at 55 °C

Item	Order Code	Quantity	Price
AllerSnap™ Swabs	TEST0106	Box of 100	£225.00
Mini incubator (12 wells)	TEST0107	1	£284.00
12 Well Block for Mini Incubator	TEST0107/01	1	£102.00
Lab Format Incubator (2 x 35 wells)	TEST0125	1	£320.00
35 Well Block for lab format incubator Pack size: 100 swabs	TEST0125/02	1	£113.00



Shelf life: 12 months  
at room or refrigerated  
temperatures (2 – 25 °C)

# Rapid Sugar Residue Test

## SpotCheck Plus Glucose & Lactose Residue Test

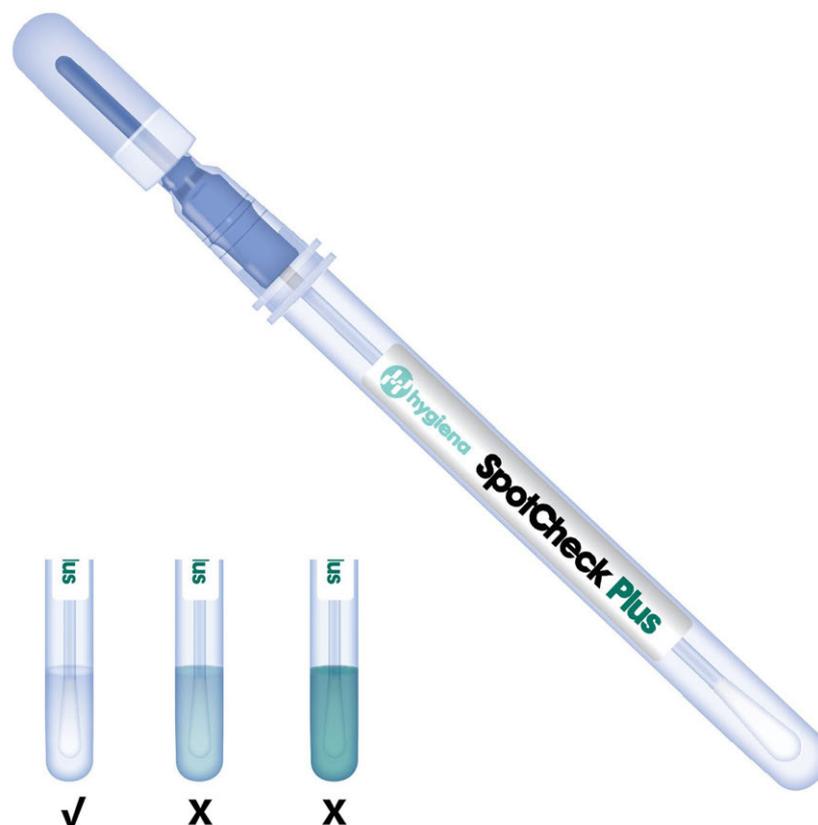
**Description:** SpotCheck Plus detects the presence of glucose and lactose on a surface.

**Recommended for:** Simply swab a surface, release the reagent and if any residue containing glucose and/or lactose is present the reagent will turn green, indicating poor surface hygiene. The more contamination present, the quicker the colour change and darker the colour. SpotCheck Plus instantly validates the hygiene of a surface, allowing immediate corrective action to be taken if necessary.

- All-in-one device
- Easy-to-interpret colour results
- No instrumentation necessary
- Results in 60 seconds
- Pre-moistened swab for reliable collection, recovery, and detection
- Detects down to 2.5  $\mu$ moles D-glucose or 5.0  $\mu$ moles lactose in 60 seconds



Item	Order Code	Quantity	Price	Shelf life: 12 months at refrigerated temperatures (2 – 8 °C) 4 weeks (21-25°C)
SpotCheck Plus Swabs	TEST0103	Box of 100	£184.00	



# Raw Meat Speciation Test Kits

The Raw Meat Species FlowThrough™ Swab tests take under 8 minutes to perform, detecting the relevant species-specific protein at µg levels on food contact surfaces.

The test consists of just two components, an innovative swab device and the test unit, no special equipment or training is required. This makes the FlowThrough™ swab tests so simple and easy to perform.



Item	Order Code	Quantity	Price
Raw Meat Speciation FlowThrough - Cow	TEST0160	1 Box of 5 Tests	£99.00
Raw Meat Speciation FlowThrough - Horse	TEST0161	1 Box of 5 Tests	£99.00
Raw Meat Speciation FlowThrough - Pig	TEST0162	1 Box of 5 Tests	£99.00
Raw Meat Speciation FlowThrough - Poultry	TEST0163	1 Box of 5 Tests	£99.00
Raw Meat Speciation FlowThrough - Sheep	TEST0164	1 Box of 5 Tests	£99.00

# Biofilm Detection Test

## BioFinder BioFilm Detection Solution

Biofinder reacts specifically in the presence of biofilms for clear and rapid detection (within 30 seconds) of contaminated surfaces. This detects biofilm and harmful micro-organisms even when a simple visual inspection check fails.

It consists of a series of solutions, chemicals products and reagents, which in the presence of active micro-organisms, decompose the reagent to release oxygen bubbles, which forms a foam - for quick identification of a contaminated surface.

In seconds, a positive result can be generated, confirming the presence of biofilms, for action to be taken.

Biofinder has an orange colouring, which provides a contrast background to enhance the appearance of the white foam, thus making it easily visible to the human eye.

The colouring will not stain surfaces, making it possible to use the product on any surface type.

Heavy contamination is indicated within 10 seconds, mild contamination within 30 seconds.

### Features:

- Fast and efficient detection of biofilms.
- Biofinder is safe to use, non-staining, leaves no residues and rinses easily.
- Contamination is detected within 30 seconds of application.
- Biofinder is extremely cost effective and significantly strengthens your cleaning verification and monitoring processes.



Item	Order Code	Quantity	Price
BioFinder (3 x 500ml)	TEST0176	1	£99.00

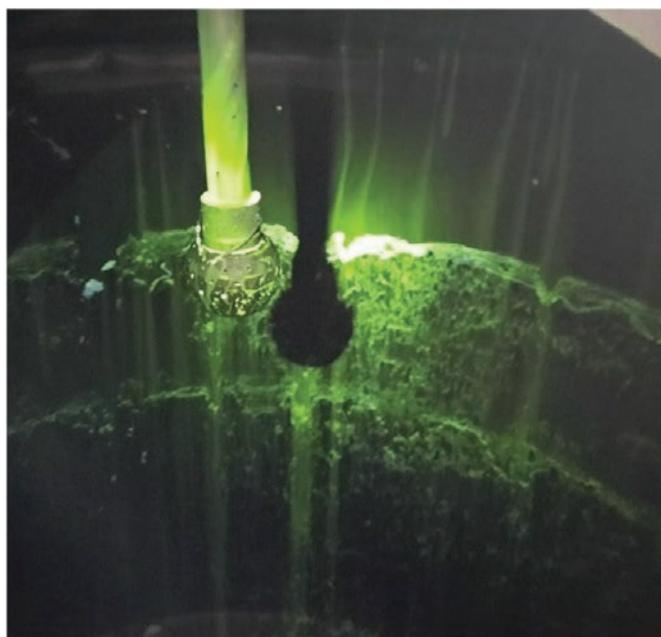
# Shadow Detection Spray

## UV Shadow Spray

**Description:** A simple to use UV reflectance spray for the rapid detection of shadow areas on surfaces and within vessels and pipework.

**Recommended for:** Developed by Holchem, UV Shadow Spray is a simple to use liquid spray designed to quickly identify areas where potential contamination is a concern e.g. inside vessels and pipework that may have been missed or not properly cleaned during cleaning in place (CIP) or another type of recirculatory cleaning system. Potential areas of concern that can be highlighted using the spray include:

- Issues with spray device patterns due to poor performance or incorrect positioning
- Blocked or damaged spray devices
- Spray patterns that may have been affected following vessel modifications or obstructions within the vessel
- Issues with CIP pressures and flow rates



The spray contains non-toxic ingredients which adhere to surfaces and fluoresce in the presence of UV light. The UV shadow spray solution is applied straight from the trigger spray applicator, before cleaning, to any areas where there are concerns with cleanability. Once the cleaning has been completed the areas can be quickly checked straight away using a suitable UV Torch (TEST0055, TEST0195 or TEST0210). No visible UV fluorescence indicates that the clean is effective, however, if residues remain fluorescing under UV light, this then allows the Operator to decide on a suitable course of action to eliminate the problem.

Any spray that remains fluorescing on surfaces can be rinsed away or wiped off the surfaces using a suitable wipe, before re-checking again with a UV torch to ensure all surfaces are free from residues.

Item	Order Code	Quantity	Price
UV Shadow Spray (1 Litre)	TEST0196	1	£9.99
UV 5W Torch	TEST0055	1	£339.00
41 LED UV Torch	TEST0195	1	£29.00
LED/UV Lumitorch	TEST0210	1	£75.00



# Rapid Allergen Tests

## Specific Allergen Tests

### Neogen Reveal 3-D food allergen kits



**Description:** The Reveal® 3-D Tests make it simple to screen for the presence of low levels of allergens in food products and environmental swabs virtually anywhere.

**Recommended for:** The Reveal 3-D allergen tests utilise a 3-line readout: a control line confirms the method has been performed successfully and two further lines differentiate low & high levels of detection. The Reveal 3-D tests can be used virtually anywhere to screen environmental swabs, food products and Clean in Place (CIP) rinses for the presence of allergen contamination.

Each kit contains everything required (including swabs) to perform testing. There are 10 tests included (except 3-D Gliadin R5 which includes 20 tests). Sample preparation and testing takes less than 10 minutes, making Neogen's Reveal® 3-D tests a great choice for on-site food allergen control.

Item	Order Code	Quantity 1-4	Quantity 5-9	Quantity 10+
Reveal 3-D Almond	TEST0005	£98.00	£85.00	£82.00
Reveal 3-D Coconut	TEST0180	£98.00	£85.00	£82.00
Reveal 3-D Crustacea	TEST0006	£98.00	£85.00	£82.00
Reveal 3-D Egg	TEST0012	£98.00	£85.00	£82.00
Reveal 3-D Gluten	TEST0002	£98.00	£85.00	£82.00
Reveal 3-D Gliadin R5	TEST0047	£224.00	£195.00	£184.00
Reveal 3-D Hazelnut	TEST0004	£98.00	£85.00	£82.00
Reveal 3-D Mustard	TEST0048	£98.00	£85.00	£82.00
Reveal 3-D Peanut	TEST0003	£98.00	£85.00	£82.00
Reveal 3-D Sesame	TEST0049	£98.00	£85.00	£82.00
Reveal 3-D Soy	TEST0019	£98.00	£85.00	£82.00
Reveal 3-D Total Milk	TEST0001	£98.00	£85.00	£82.00
Reveal 3-D Multi-Treenut (almond, hazelnut, pecan, walnut, cashew & pistachio)	TEST0053	£184.00	£180.00	£175.00



Swab shelf life:  
Maximum 3 months  
at refrigerated  
temperatures (2 – 8 °C)

## Specific Allergen Tests

### AgraStrip® Allergen Test Strips



**Description:** AgraStrip® Allergen Test Strips for the rapid and simple detection of allergens.

**Recommended for:** The AgraStrip® Allergen Test Strips are a lateral flow strip test designed for the rapid and simple detection of allergenic proteins within a food manufacturing facility.

Real time testing using on-site lateral flow methods allows for quick testing and immediate decision making, especially when a fast turnaround or trouble shooting is necessary. Solid products such as raw materials, in-process materials or finished products and liquid samples such as liquid products or rinse water can be tested, as well as environmental swabs of machinery and surfaces, each AgraStrip allergen test includes 10 test strips.

Item	Order Code	Quantity 1-4	Quantity 5-9	Quantity 10+
AgraStrip Almond	TEST0024	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Brazil Nut	TEST0025	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip B Lactoglobulin	TEST0044	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Casein	TEST0026	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Cashew/Pistachio	TEST0027	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Coconut	TEST0038	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Crustacea	TEST0045	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Egg	TEST0028	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Gluten G12	TEST0029	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Hazelnut	TEST0031	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Lupin	TEST0035	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Macadamia Nut	TEST0036	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Mustard	TEST0032	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Peanut	TEST0037	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Sesame	TEST0033	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Soy	TEST0039	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00
AgraStrip Total Milk	TEST0046	£106.00/€122.00	£93.00/€107.00	£86.00/€99.00
AgraStrip Walnut	TEST0034	£90.00/€103.50	£80.00/€92.00	£73.00/€84.00

Swab shelf life: 6-12 months at ambient room temperatures

## Enzyme Linked Immuno Sorbent Assay (ELISA) & Polymerase Chain Reaction (PCR) Testing Services

ELISA is an immunological detection method by which specific antibodies bind to proteins and small molecules; this technique allows for the simultaneous measurement of multiple samples.

PCR analysis is a highly specific DNA-based test method, which allows for the detection of specific sequences of genes. A very small amount of DNA is copied multiple times by the polymerase and can thus be detected. Real-time PCR is used to amplify and simultaneously detect or quantify a targeted DNA molecule.

Holchem can arrange with Romer Labs for surface swab samples to be tested using ELISA or PCR test for the following allergens (please contact Holchem for a quotation):

- Almond
- $\beta$ -Lactoglobulin (BLG)
- Casein
- Cashew
- Crustacean
- Egg White Protein
- Fish
- Gluten
- Hazelnut
- Lupin
- Macadamia
- Milk
- Mustard
- Peanut
- Pistachio
- Sesame
- Soy
- Walnut
- Celery (Using PCR)
- Pecan (Using PCR)



The AgraQuant® Allergen Swabbing Kit is an accessory kit used to collect environmental swab samples from surfaces, processing machinery etc, on which allergenic proteins may be present. Quantitative analysis of swabs taken from equipment or surfaces before and after use provides evidence that cleaning procedures have been effective.

The kit is validated to be used with the range of AgraQuant® Allergen enzyme-linked immunosorbent assays (ELISA). The AgraQuant® Allergen analysis is carried out in the laboratory to quantify the amount of the specific food allergen present in the swabbing solution. Swabs are also validated for use with Romer Labs PCR methods.

Item	Order Code	Quantity	Price
AgraQuant Allergen Swabbing Kit	TEST0193	1 Box of 20 swabs	£50.00

## Specific Allergen Tests



### 3M Allergen Protein Rapid Test Kits

**Description:** The 3M™ Protein Rapid Test Kits are intended for screening for the presence of specific proteins in clean-in-place (CIP) final rinse water, environmental swab samples, food ingredients and processed food products.

The 3M Allergen Protein Rapid Test Kits utilise a lateral flow device (LFD) that is an immunochromatographic test method utilising antibodies which are specific for the detection of specific proteins.

Positive results are visualised by the presence of three lines: a control line, a hook line and a test line, when the fish protein is present in the desired concentration range.

Limits may vary depending on the matrix tested. Samples containing high amounts of the specific protein being tested may result in an invalid test which will result in the absence of the hook line and / or test line.

- Results visible at 11 +/- 1 minute after application of the sample.
- Rapid, qualitative immunochromatographic lateral flow test cartridges designed for the detection of allergenic food proteins.
- Designed to detect both processed and unprocessed allergen proteins.
- Test can accommodate environmental swab, CIP rinse water and food samples.



Item	Order Code	Quantity	Price
3M Coconut Allergen Test Kit	TEST0155	1 Box of 25 Tests	£279.00
3M Fish Allergen Test Kit	TEST0156	1 Box of 25 Tests	£279.00

# Specific Allergen Tests

## AllerFlow Gluten



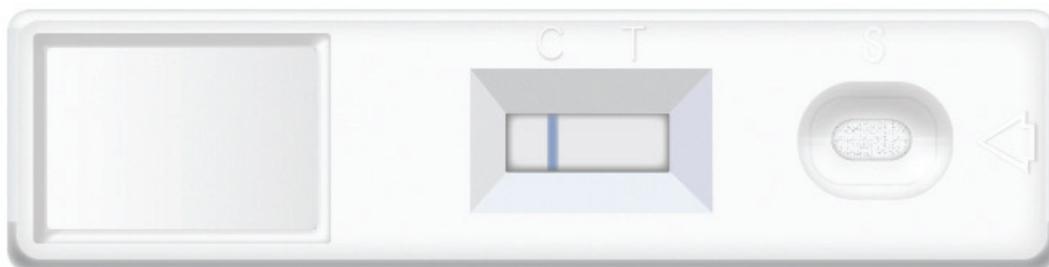
**Description:** AllerFlow Gluten is a rapid and convenient test for the detection of gluten residue on surfaces as part of an allergen monitoring program.

Recommended for: Combining Hygiena’s convenient sample collection swab design and classic lateral flow technology, AllerFlow Gluten makes gluten testing easier than ever before.

Just swab, snap, and pour - when it comes to specific allergen kits, AllerFlow Gluten offers unparalleled convenience. The sample collection swab holds pre-measured, ready-to-use extraction buffer, so all you have to do is swab an area, activate the device with a snap and squeeze action, and pour the sample onto the lateral flow cassette.

AllerFlow Gluten results couldn’t be easier to read. If the sample contains 5 ppm or more of gluten, a red line will appear on the cassette. Results are simple for any user to understand without complicated interpretation or instrumentation.

Item	Order Code	Quantity	Price
AllerFlow Gluten	TEST0191	1 Box of 25 Tests	£289.00



# Generic Allergen Tests

## AllerSnap™

Description: AllerSnap™ is a quick and easy way to verify the cleanliness of surfaces by detecting protein residues left behind after cleaning.

Recommended for: Simply swab a surface, release the reagent, incubate, and if protein residue is present, the reagent will turn purple. The colour change provides a semi-quantitative measure of surface cleanliness. More contamination produces a quicker and darker colour change to purple.

AllerSnap™ rapidly validates the hygiene of a surface, allowing immediate corrective action to be taken if necessary.

Results in 15-30 minutes (requires a mini incubator).

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

A mini incubator and the 12 well block is required (TEST0107 & TEST0107/01 - sold separately) or for larger swab volumes a Lab Format Incubator and two 35 well blocks (TEST0125 & TEST0125/02 - sold separately) can be used to allow up to 70 swabs to be incubated.

No additional sample handling of the sample is necessary.

Item	Order Code	Quantity	Price
AllerSnap™ Swabs	TEST0106	Box of 100	£225.00
Mini incubator (12 wells)	TEST0107	1	£284.00
12 Well Block for Mini Incubator	TEST0107/01	1	£102.00
Lab Format Incubator (2 x 35 wells)	TEST0125	1	£320.00
35 Well Block for lab format incubator	TEST0125/02	1	£113.00

Pack size: 100 swabs  
Shelf life: 12 months  
at room or refrigerated  
temperatures (2 – 25 °C)





# Hand Hygiene Sampling Devices

## UV Hand Inspection Cabinet

**Description:** A Hand Inspection Cabinet using UVA, long wave UV light.

**Recommended for:** This product is used to demonstrate correct hand washing/scrubbing techniques. It will instantly highlight any defects and raises the awareness of potential hygiene problems.



The Hand Inspection Cabinet demonstrates the importance of hands being washed often and well, requiring the right technique and friction to reduce the risks of user infections and cross contamination

Item	Order Code	Quantity	Price
UV Cabinet	TEST0108	1	£179.00
Replacement UV Bulb	TEST0109	1	£24.00
Carry Case	TEST0110	1	£24.00
Hand Inspection Cabinet Starter Kit (includes hand inspection cabinet, a bottle of Glitterbug UV lotion, a carry case and a spare UV bulb)	TEST0202	1	£229.00



240ml bottle

## Glitterbug Lotion

**Description:** The Glitterbug Lotion is rubbed in to your hands and when placed under a UV lamp any areas not washed properly will show up.

**Recommended for:** A special lotion, GlitterBug, is applied to the hands and then washed off providing a visual way of testing, teaching and monitoring good hand washing techniques.

When the hands are placed in the Hand Inspection Cabinet or under any suitable UV light e.g. UV torches (TEST0055, TEST0195 or TEST0210) any remaining GlitterBug Lotion will fluoresce under the ultraviolet lamp demonstrating the flaws in the hand washing technique. The GlitterBug products provide a valuable tool for teaching proper hand-hygiene techniques.

Item	Order Code	Quantity	Price
Glitterbug lotion	TEST0111	1	£21.00
UV 5W Torch	TEST0055	1	£339.00
41 LED UV Torch	TEST0195	1	£29.00
LED/UV Lumitorch	TEST0210	1	£75.00

## GlitterBug Gel

**Description:** The GlitterBug Gel is an innovative product designed for teaching, testing and evaluating hand-sanitiser application technique.

**Recommended for:** The GlitterBug Gel is used extensively within the food industry for ensuring staff have satisfactory hand-sanitiser application procedures.

GlitterBug Gel is spread onto the hands as if applying a hand sanitiser. If the hands are then placed within a UV cabinet (TEST0108) or under a UV torch (TEST0055, TEST0195 or TEST0210), it will highlight the areas where the gel has not been applied properly.



Item	Order Code	Quantity	Price
GlitterBug Gel	TEST0206	1	£23.00
UV Cabinet	TEST0108	1	£179.00
UV 5W Torch	TEST0055	1	£339.00
41 LED UV Torch	TEST0195	1	£29.00
LED/UV Lumitorch	TEST0210	1	£75.00

## Hand Hygiene Swab with MRD Buffer

**Description:** Liquid maximum recovery diluent (MRD)/peptone saline diluent medium in tube with a hygiene label. Includes a polystyrene shaft/viscose tip swab in a peelable pouch.

Recommended for: Convenient analysis for non-disinfected equipment surfaces or hand swabbing - contains no harsh chemicals, therefore safe to use on hands. Excellent recovery of organisms including: TVC, Listeria spp., Staphylococci, Enterobacteriaceae e.g. Salmonella, E.coli, Enterobacter.

Pack size: 100 swabs Shelf life: 2 years at room or refrigerated temp (2 – 25 °C)



Item	Order Code	Quantity	Price
Hand Hygiene swab with MRD buffer	TEST0112	Box of 100	£73.10





# Chemical Tests

## Chemical Titration Kits

**Description:** Easy-to-use chemical titration kits for testing detergent and disinfectant concentrations.

**Recommended for:** Any cleaning regime requires the selection of the correct detergent and disinfectant strength, with routine checks carried out to ensure that this desired strength has been met.

These simple to use titration kits contain reagents and test methods for all of the Holchem chemical detergent and disinfectant range



## Acid Test Kit

Recommended for checking the chemical concentrations of Holchem acid detergent products

Item	Order Code	Quantity	Price
Acid dropper test kit	SKS00801	1	£33.00
Acid dropper test kit individual reagents – PA1 indicator (65ml)	SKS00800/01	1	£6.00
Acid dropper test kit individual reagents – PA1 indicator (500ml)	SKS00843/1	1	£27.00
Acid dropper test kit individual reagents – ACD3 (65ml)	SKS00801/01	1	£6.12



## Alkaline Test Kit

Recommended for checking the chemical concentrations of Holchem alkaline/caustic detergent products.

Item	Order Code	Quantity	Price
Alkaline dropper test kit	SKS00800	1	£33.00
Alkaline dropper test kit individual reagents – PA1 indicator (65ml)	SKS00800/01	1	£6.00
Alkaline dropper test kit individual reagents– PA1 indicator (500ml)	SKS00843/1	1	£27.00
Alkaline dropper test kit individual reagents – PA2 acid solution (65ml)	SKS00800/02	1	£6.00
Alkaline dropper test kit individual reagents – PA2 acid solution (500ml)	SKS00843/2	1	£27.00
Alkaline dropper test kit individual reagents – Sodium Thiosulphate Crystals	SKS00800/03	1	£6.00



## Alkaline & Carbonate Test Kit

Recommended for checking Sodium Hydroxide and Sodium Carbonate concentrations during CIP within a brewery.

Item	Order Code	Quantity	Price
Alkaline & carbonate dropper test kit	SKS00837	1	£36.00



### Anionic Test Kit

Recommended for checking the chemical concentrations of Holchem anionic detergent products

Item	Order Code	Quantity	Price
Anionic dropper test kit	TEST0016	1	£33.00
Anionic dropper test kit individual reagents– AN1 (65ml)	TEST0020	1	£6.18
Anionic dropper test kit individual reagents – AN2 (65ml)	TEST0021	1	£6.18
Anionic dropper test kit individual reagents– AN3 (65ml)	TEST0022	1	£6.18



### Available Chlorine Test Kit

Recommended for checking the amount of available chlorine (ppm) in Holchem chlorinated products.

Item	Order Code	Quantity	Price
Available chlorine dropper test kit	SKS00802	1	£39.00
Available chlorine dropper test kit individual reagents – CL1/2 (65ml)	TEST0213	1	£12.50
Available chlorine dropper test kit individual reagents – CL3 (65ml)	SKS00802/04	1	£6.00



### Farmsan Test Kit

Recommended for checking the chemical concentration of Holchem Farmsan disinfectants.

Item	Order Code	Quantity	Price
Farmsan dropper test kit	SKS00812	1	£33.00
Farmsan test kit individual reagents – CL3 (65ml)	SKS00802/04	1	£6.00



### Free Chlorine Test Kit

Recommended for checking the amount of free chlorine (ppm) in Holchem chlorinated products.

Item	Order Code	Quantity	Price
Free chlorine dropper test kit	SKS00832	1	£39.00
Free chlorine dropper test kit individual reagents – FCL1 (65ml)	TEST0008	1	£6.00
Free chlorine dropper test kit individual reagents – FCL1 (500ml)	TEST0010	1	£23.00
Free chlorine dropper test kit individual reagents – FCL3 (65ml)	TEST0009	1	£9.00
Free chlorine dropper test kit individual reagents – FCL 3 (500ml)	TEST0011	1	£34.00



### Hydrogen Peroxide Test Kit

Recommended for checking the amount of hydrogen peroxide in Holchem products containing hydrogen peroxide.

Item	Order Code	Quantity	Price
Hydrogen peroxide dropper test kit	TEST0017	1	£39.00



### Neutral Test Kit

Recommended for checking the chemical concentrations of Holchem neutral products

Item	Order Code	Quantity	Price
Neutral dropper test kit	SKS00809	1	£33.00
Neutral dropper test kit individual reagents – TA1 Methyl orange indicator (65ml)	SKS00809/01	1	£6.00
Neutral dropper test kit individual reagents– PA2 acid solution (65ml)	SKS00800/02	1	£6.00
Neutral dropper test kit individual reagents– PA2 acid solution (500ml)	SKS00843/2	1	£27.00



## Peracetic Acid Test Kit

Recommended for checking the amount of Peracetic acid (ppm) in Holchem Peracetic acid based products

Item	Order Code	Quantity	Price
Perbac, Perbac Farm, Protect HC505 & Crystal dropper test kit,	SKS00834	1	£35.00
Perbac 15, Crystal Plus dropper test kit	SKS00835	1	£35.00
Perbac OPD dropper test kit	SKS00836	1	£35.00
Peracetic acid dropper test kit individual reagents 0.4N Sodium Thiosulphate (65ml)	SKS00833	1	£7.00
Peracetic acid dropper test kit individual reagents– Potassium iodide crystals (25g)	SKS00811/03	1	£7.00
Peracetic acid dropper test kit individual reagents– Potassium iodide crystals (500g)	SKS00811/160	1	£103.00
Peracetic acid dropper test kit individual reagents – Acid Ammonium Molybdate (250ml)	SKS00811/04	1	£28.00



## QAC Test Kit

Recommended for checking the chemical concentrations of Holchem QAC products.

Item	Order Code	Quantity	Price
QAC dropper test kit	SKS00803	1	£33.00
QAC dropper test kit individual reagents – QA1 (65ml)	SKS00803/01	1	£8.00
QAC dropper test kit individual reagents – QA1 (500ml)	SKS00844/1	1	£34.00
QAC dropper test kit individual reagents – QA2 (65ml)	SKS00803/02	1	£6.00
QAC dropper test kit individual reagents – QA2 (500ml)	SKS00844/2	1	£26.00
QAC dropper test kit individual reagents – QA3 (65ml)	SKS00803/03	1	£8.00
QAC dropper test kit individual reagents – QA3 (500ml)	SKS00844/3	1	£34.00



### Residual EDTA Test Kit

Recommended for checking the amount of residual EDTA (ppm) in Holchem products containing EDTA.

Item	Order Code	Quantity	Price
Residual EDTA dropper test kit	SKS00810	1	£35.00



### Total EDTA Test Kit

Recommended for checking the total EDTA (ppm) in Holchem products containing EDTA.

Item	Order Code	Quantity	Price
Total EDTA dropper test kit	SKS00805	1	£37.00
Total EDTA dropper test kit individual reagents – 0.01M copper sulphate (65ml)	SKS00805/01	1	£6.00
Total EDTA dropper test kit individual reagents – 5M acetic acid (65ml)	SKS00805/02	1	£7.00
Total EDTA dropper test kit individual reagents – PAN indicator (65ml)	SKS00805/03	1	£7.00



### Triamine Test Kit

Recommended for checking the chemical concentrations of Holchem Triamine products.

Item	Order Code	Quantity	Price
Triamine dropper test kit	TEST0051	1	£31.00
Triamine dropper test kit individual re-agents - TA01 (65ml)	TEST0051/01	1	£7.00
Triamine dropper test kit individual re-agents – TA02 (65ml)	TEST0051/02	1	£7.00
Triamine dropper test kit individual re-agents – TA01 (500ml)	TEST0054	1	£26.00
Triamine dropper test kit individual re-agents – TA02 (500ml)	TEST0052	1	£26.00



## Ultralube Test Kit

Recommended for checking the chemical concentrations of Holchem Ultralube products.

Item	Order Code	Quantity	Price
Ultralube dropper test kit	SKS00815	1	£29.00
Ultralube dropper test kit individual reagents – PA1 indicator (65ml)	SKS00800/01	1	£6.00
Ultralube dropper test kit individual reagents – PA1 indicator (500ml)	SKS00843/1	1	£27.00



## Total Water Hardness Test Kit

Recommended for checking the total water hardness (ppm calcium carbonate) of water samples.

Item	Order Code	Quantity	Price
Water hardness dropper test kit	SKS00804	1	£33.00
Water hardness dropper test kit individual reagents – H (65ml)	SKS00804/01	1	£7.00
Water hardness dropper test kit individual reagents – TH2 (65ml)	SKS00804/02	1	£6.00
Water hardness dropper test kit individual reagents – TH5 (65ml)	SKS00804/03	1	£13.00

## Test Kit Consumables

Item	Order Code	Quantity	Price
5ml syringe	SKS00820	1	£5.00
10ml syringe	SKS00821	1	£4.00
20ml syringe	SKS00822	1	£3.00
Polycarbonate test jar	SKS00823	1	£12.00
Dropper bottle for test kit	SKS00819	1	£2.00
Metal spatula	SKS00824	1	£4.00

# Palintest Kemio Disinfection Tester

## Palintest Kemio™ Disinfectant Tester

**Description:** The next generation measurement platform for disinfectant solution testing, utilising a sophisticated electrochemical technique which removes complexity for the user, giving you clear results for confident decision making.

**Recommended for:** The Palintest Kemio™ disinfection tester performs tests for Chlorine (free and total), Chlorine Dioxide and Peracetic Acid (PAA) on one instrument with the use of different sensors. Ideal for produce wash disinfectant solutions.



The Palintest Kemio™ disinfection tester provides:

- Repeatable and reliable results with minimal user input.
- Suitable for all users, no training required.
- Get clear / pass and fail results to enable corrective action.
- Add personalised test information to create a complete, auditable dataset.
- Suitable for all sample types, not affected by colour, turbidity, floating particles or ambient light.

Kemio™ delivers repeatable and reliable results for every user: Get consistent results across all users. Unlike traditional measurement techniques, Kemio™ does the hard work for the operator, minimising chances for errors caused by users.

Suitable for all users with no training required: With on-screen visual instructions, Kemio™ can be used by anyone straight out of the box.



Personalised to your testing needs: Add your own test limits to set pass and fail results which enable clear action for the operator. Create a complete dataset by inputting personalised information such as user, location, batch and product.

Multiparameter testing platform  
Kemio™ performs tests for Chlorine (free and total), Chlorine Dioxide and Peracetic Acid (PAA) on one instrument with the use of different sensors.

Get audit-ready with organised data:  
The integrated data log summarises 10,000 results to provide a traceable, auditable dataset. Meet your compliance requirements by extracting data via USB with the encrypted data transfer.

Suitable for all sample types:  
Kemio™ delivers a consistent performance for samples which are coloured, turbid or include floating particles. Ideal for produce wash disinfectant solutions.

Perform validation at the point of use:  
Kemio™ uses no glassware and is certified IP67 waterproof, making it suitable for use even in difficult operating environments.

Item	Order Code	Quantity	Price
Palintest Kemio™ disinfection tester	TEST0186	1	£995.00
Peracetic acid sensor (500 tests)	TEST0187	1	£380.00
Chlorine high range sensor (500 tests)	TEST0188	1	£280.00
Chlorine dioxide sensor (500 tests)	TEST0189	1	£270.00

## Chemical Testing Paper & Strips

**Description:** Easy-to-use chemical test papers and test strips for testing disinfectant concentrations and also the presence of chemicals on surfaces.

**Recommended for:** Any cleaning regime requires the selection of the correct detergent and disinfectant strength, with routine checks carried out to ensure that this desired strength has been met. These simple to use chemical test papers and test strips can be used for testing a range of Holchem chemical disinfectants and for the presence of cleaning chemicals on surfaces and within rinse waters.

Item	Order Code	Quantity	Price
Merck MQuant Chlorine test strips (25-500ppm available chlorine) (100 strips)	SKS00839/25-500	1	£89.00
Quantofix Chlorine test strips (100 strips)	TEST0185	1	£12.00
Chlorine test paper (0-200ppm chlorine) (15 feet roll)	TEST0219	1	£12.00
Merck MQuant Peracetic acid test strips (100-500ppm PAA) (100 strips)	SKS00840/100-500	1	£129.00
Quantofix Peracetic Acid test strips (0-50ppm PAA) (100 Strips)	TEST0182	1	£69.00
LaMotte Peracetic Acid test strips (0-160ppm PAA) (50 strips)	TEST0214	1	£29.00
QAC test strips with dispenser (4.5 metres)	SKS00841	1	£14.00
QAC test strips (refill 5 x 4.5 metre rolls)	SKS00841/01	1	£33.00
Triamine test strips (100 strips)	TEST0133	1	£33.00
pH paper (pH1-14) (5 metres)	SKS00842	1	£19.00
pH test strips (100 strips)	TEST0172	1	£9.95
Phenolphthalein test strips (200 strips)	TEST0040	1	£7.00
Quantofix Sulphite test strips (0-1000ppm Sulphite) (100 strips)	TEST0184	1	£69.00
Quantofix Nitrate/Nitrite test strips (1-500ppm Nitrate & 1-80ppm Nitrite) (100 strips)	TEST0181	1	£69.00



# Temperature, pH, Conductivity & Time Monitoring Equipment

## Temperature Monitoring

### Thermocouple ThermaData Logger (IP67 rated)

**Description:** A waterproof temperature data logger for high temperature applications

**Recommended for:** The ThermaData® thermocouple data logger is housed in a waterproof, ergonomic case that is designed to meet IP66/67 protection.

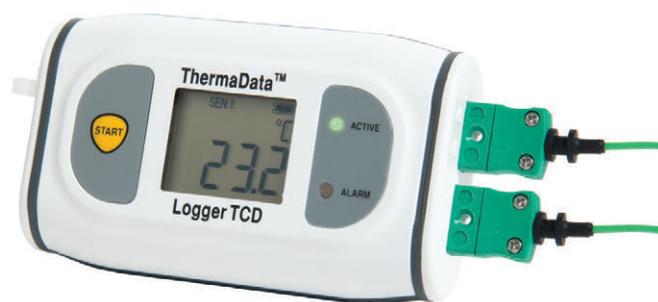
The Thermocouple ThermaData® data logger measures temperatures over the range of -100 to 1372 °C with a 0.1 °C resolution, auto-ranging to 1 °C over the range of 301 to 1372 °C. At programmable intervals the loggers will record the temperature, up to a maximum of 16000 readings or 2 x 8000 readings. The logger can record up to 4000 readings ranging from every 0.1 to 255 minutes.

The logger incorporates a red and green LED, the flashing green LED indicates that the logger is active/logging and the flashing red LED indicates that your customised pre-set alarms have been exceeded. Each logger is supplied with a USB lead and ThermaData® Studio Software.

The logger could be used to record a temperature profile during an automated washing cabinet cleaning cycle.

The ThermaData Studio software allows the user to organise and analyse the recorded data and also to programme the logger (sample description, interval rate (0.1 to 255 minutes), clock, temperature units or delay the data logging start).

Each logger will require one PTFE wire probe (sold separately).



Item	Order Code	Quantity	Price
Thermocouple ThermaData Logger	TEST0113	1	£125.00
PTFE wire probe	TEST0114	1	£10.00

## CaterTemp Thermometer and Probe

**Description:** A professional digital thermometer

**Recommended for:** The CaterTemp digital thermometer can be used for checking the temperature of water and dilute chemical solutions.

The CaterTemp can be used to measure temperatures ranging from -49.9 to 299.9°C and also features a bright easy to read LCD display. The unit is powered by three 1.5V AAA batteries which should provide a minimum of five years battery life; this is aided by the automatic power off feature.

The thermometer is supplied with a permanently attached 130mm stainless steel probe and a one metre coiled lead.

The CaterTemp digital thermometer is housed in a durable case which contains 'Biomaster' additive which helps to reduce microbial growth.



Item	Order Code	Quantity	Price
CaterTemp Thermometer & Probe	TEST0115	1	£72.00

## RayTemp 28 High Temperature Infrared Thermometer

**Description:** A dual laser non-contact thermometer for the precise targeting of temperatures

**Recommended for:** The RayTemp 28 is a non-contact dual laser thermometer which allows the user to target difficult to reach or small areas and measure the temperature accordingly.

**The thermometer features:**

- Wide temperature range (-50 to 1370°C).
- IP54 robust splash proof case.
- Dual laser for precise targeting.
- Mode selection to allow the user to monitor maximum, minimum and average temperatures.
- Easy to read custom LCD display.



Item	Order Code	Quantity	Price
RayTemp 28 High Temperature Infrared Thermometer	TEST0138	1	£135.00

## Mini Infrared Thermometer

**Description:** A pocket sized infrared thermometer

**Recommended for:** Suitable for checking the temperature of different surfaces.

This pocket size and easy-to-use infrared thermometer is ideal for precise non-contact measurement of surface temperatures. Suitable for monitoring appliances, heating, ventilation and air conditioning systems.

### Features:

- Test temperatures from -50° to +260°C
- User-selectable °C or °F
- Hold within 6 inches of the area to be measured, push the button, read the display
- Distance to spot size ratio is 1 to 1 at the focal point
- Fixed emissivity at 0.95
- Response time less than 1 second
- Large 20mm LCD display with function indicators
- Automatic data hold
- Auto power-off
- Low battery indication
- Impact-resistant ABS case
- Supplied with batteries



Item	Order Code	Quantity	Price
Mini Infrared Thermometer	TEST0146	1	£24.00

## DishTemp Thermometer

**Description:** A waterproof thermometer for measuring automated washing machine temperatures

**Recommended for:** The DishTemp Thermometer simulates a plate as it's cleaned and sanitised within a commercial dishwasher. The thermometer accurately records the maximum surface temperature at the touch of a single button, eliminating the need for test strips and stem thermometers, which may not stay in place and may not record temperature at the plate surface.

The DishTemp Thermometer indicates temperatures over the range of 0 to 90 °C (resolution of 0.1 °C/°F and an accuracy of ±0.5 °C) and is supplied complete with a traceable certificate of calibration. The DishTemp is waterproof to IP66.



Item	Order Code	Quantity	Price
DishTemp Thermometer	TEST0116	1	£32.00

## Thermal Imaging Camera

**Description:** A thermal imaging camera

**Recommended for:** Immediate detection of both hot and cold surfaces

The ADT-9868 Infrared Thermal Camera is a simple “point-shoot-detect” providing high quality thermal images. It allows immediate identification of hot and cold areas. It allows you to record a radiometric heat map up to 6000 images on the micro SD card. It is ideal for detecting hidden problems, surveying buildings and equipment to identify potential “hot spots” where microorganisms may be harbouring e.g. Escherichia coli.

Image Blending makes it easier to understand heat maps through the use of an aligned visual image and the heat map. The instrument captures a visual image with each heat map to exactly show the target area and more effectively share it with others.

### Features:

- 2.2" 48608 pixels colour LCD display with adjustable brightness
- Selectable °C or °F
- Fully automatic and focus free
- Environment temperature compensation
- Field of view 38° x 38°
- Centre spot crosshair
- Adjustable emissivity
- Emissivity table included
- Hot spot and cold spot tracking
- High and low alarm (enable or disable)
- Image blending with selectable distance of 0.5m, 1m, 2m or 3m
- Selectable colour palette Grey1, Grey2, IRONbow, Rainbow or hi contrast
- SD card storage with USB connection saves up to 6000 images
- Auto power off
- View or download radiometric heat map images of your findings
- Supplied with tripod, 3.7V Li ion battery (rechargeable battery), charger adapter, USB cable, microSD card and carrying case.



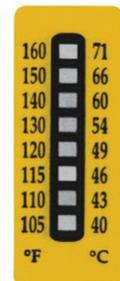
Item	Order Code	Quantity	Price
Thermal Imaging Camera	TEST0145	1	£510.00

## Thermo Temperature Strips

**Description:** A range of self-adhesive irreversible temperature strips for general purpose temperature monitoring

**Recommended for:** Attaching to the outside of vessels and pipework to verify maximum temperatures achieved during cleaning.

Item	Order Code	Quantity	Price
40-71 °C Temperature Strips	TEST0147	1 Pack of 50 Strips	£47.00
77-116°C Temperature Strips	TEST0148	1 Pack of 50 Strips	£47.00
121-160°C Temperature Strips	TEST0149	1 Pack of 50 Strips	£47.00
166-204°C Temperature Strips	TEST0150	1 Pack of 50 Strips	£47.00
210-260°C Temperature Strips	TEST0151	1 Pack of 50 Strips	£47.00



# pH Monitoring

## Pocket Water Resistant pH Tester

**Description:** A water resistant, accurate and portable, pocket pH tester

**Recommended for:** The pH tester is useful for pH testing final rinse waters and chemical solutions. It has a dual LCD screen that displays pH and temperature readings simultaneously. The exposed temperature sensor provides a fast response time and the replaceable pH electrode helps to prolong the life of the meter.

This pocket pH tester is easy to use with a two button operation and offers 0.01 pH resolution and +/- 0.05 pH accuracy.

**Main benefits:**

- Automatic buffer recognition and calibration
- Robust, replaceable electrodes
- Proximity of exposed temperature sensor to pH electrode guarantees greater accuracy in temperature compensated readings
- Calibrate direct in Hanna buffer solution sachets
- Battery % displayed on start up with Battery Error Prevention System (BEPS) to support optimum operation

The pH tester is supplied with a pH electrode, electrode removal tool and spare batteries and instructions.

Also available and sold separately:

- pH combination buffer solution kit 4.01 & 7.01 for calibrating the pH tester.
- pH electrode storage solution - keeps the pH tester glass bulb and the junction of the pH electrode moist to minimise clogging and ensure fast response time.



Item	Order Code	Quantity	Price
Pocket Water Resistant pH Tester	TEST0069	1	£135.00
pH Combination Buffer Solution Kit 4.01 & 7.01 (5 x 20ml pH 4.01 & 5 x 20ml pH 7.01)	TEST0086	1 box of 10	£20.00
pH Electrode Storage Solution	TEST0082	1 x 500ml	£29.00



## pH Test Strips

Item	Order Code	Quantity	Price
pH test strips (100 strips)	TEST0172	1	£9.95
pH paper (5 metres)	SKS00842	1	£19.00



# Conductivity Monitoring

## Portable Multi-range Conductivity Meter

**Description:** A portable multi-range conductivity meter.

**Recommended for:** The portable multi-range conductivity meter is suitable for quality control testing of chemical solutions and water conductivity levels.

The conductivity meter has a four ring potentiometric probe with built in temperature sensor which offers greater versatility over typical amperometric designs. This probe is made of PVC, making it ideal for indoor and outdoor use.

The conductivity meter has a large easy to read display, clear tutorial messaging provided on screen for easy calibration and neat ergonomic buttons to promote quick and efficient operation. The rugged PVC probe is ideal for both indoor and outdoor measurements

**Main benefits:**

- Fast and easy to calibrate
- High accuracy across a very wide range from 0.1  $\mu\text{S}/\text{cm}$  to 199.9  $\text{mS}/\text{cm}$
- Rugged conductivity and temperature probe for taking indoor and outdoor measurements
- Battery level indicator

The conductivity meter is supplied with a conductivity probe with internal temperature sensor, starter pack of calibration sachets, spare battery and instructions.

Also available and sold separately:

- 1413 $\mu\text{S}/\text{cm}$  conductivity calibration solution



Item	Order Code	Quantity	Price
Portable Multi-range Conductivity Meter	TEST0070	1	£550.00
1413 $\mu\text{S}/\text{cm}$ Conductivity Solution	TEST0088	1 x 230ml	£29.00

## Conductivity & Total Solids Tester

**Description:** A portable conductivity & total dissolved solids tester.

**Recommended for:** The measurement of conductivity (EC) and total dissolved solids (TDS) within test solutions.

The Conductivity & Total Dissolved Solids Tester is used to measure conductivity (EC) and total dissolved solids (TDS) in test solutions and features the following:

- Automatic calibration and temperature compensation.
- Low range tester for measuring samples such as clean water and tap water.
- Dual level display for simultaneous readings.
- Easy to use two buttons operation.
- Bright floating waterproof case.
- Direct contact temperature probe.
- Replacement graphite electrode snap-in probe.
- Removeable safety cap.
- Test ranges - EC 0 to 3999  $\mu\text{S}/\text{cm}$  & TDS 0 to 2000 ppm



Item	Order Code	Quantity	Price
Conductivity & Total Dissolved Solids Tester	TEST0173	1	£139.00

# Time Monitoring

## Digital Stopwatch

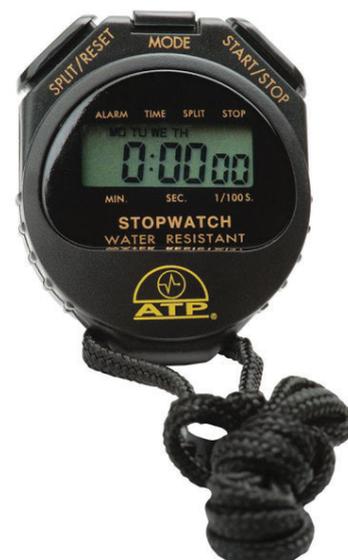
**Description:** An easy to use digital stopwatch

**Recommended for:** Timing CIP & open plant cleaning stages & chemical contact times

Housed in an impact resistant ABS case this stopwatch is easy to use for timing single events.

**Features:**

- Resolution: 0.01 seconds for the first 30 minutes; 1 second thereafter
- Calendar & time (12/24-hr format)
- Daily alarm
- Hourly Chime
- Water and shock resistant structure
- Case size: 72 x 64 x 20mm
- Supplied with neck cord & battery



## Metal Detectable Stopwatch

**Description:** A professional metal detectable stopwatch

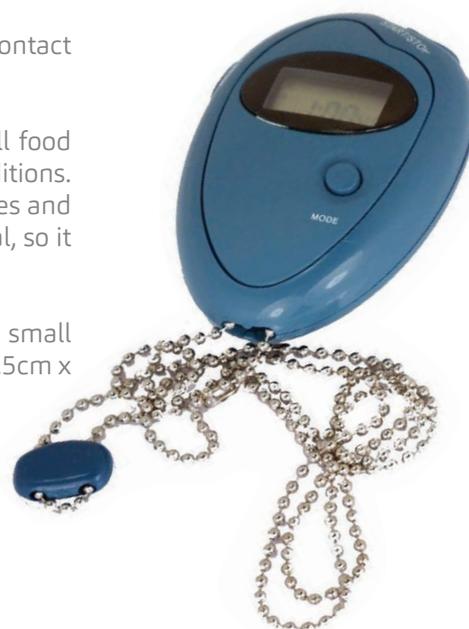
**Recommended for:** Timing CIP & open plant cleaning stages and chemical contact times

A professional metal detectable quartz stopwatch is suitable for almost all food applications, including environments with greasy, powdery and cold conditions. This stopwatch performs well in both warm and lower working temperatures and is also made from a high impact and non-shatter detectable plastic material, so it will not easily damage if dropped or rolled off work surfaces.

The Detectable Electronic stopwatch is compact and lightweight and is small enough to hold in your hand/pocket or attached to a clipboard. Measures 7.5cm x 5cm.

**Features include:**

- Split lap time 1/100th second
- Stopwatch
- Normal time
- Hours / Minutes / Seconds
- Day / Date / Month
- For all sports and technical applications
- Start / Stop Reset
- Alarm Time Setting



Item	Order Code	Quantity	Price
Digital Stopwatch	TEST0152	1	£7.00
Metal Detectable Stopwatch	TEST0168	1	£12.00

# Flow Monitoring Devices

## Fluxus F401 Flow Meter

The FLUXUS F401 is the ideal portable clamp-on ultrasonic flow meter for long-term measurement of liquid flows, where it can be moved easily between sampling sites. Depending on the programmed measurement interval the FLUXUS F401 can operate autonomously for several months. This makes it suitable for analysing total water flow volumes and leak detection campaigns, where regular measurements are required over a longer period of time.

The FLUXUS F401 is installed without process interruption and the installation can be completed within a few minutes. Thereafter, it delivers accurate and highly repeatable measurements that are not affected by drift. Due to its excellent low flow capability (down to 0.01 m/s), the FLUXUS F401 is ideally suited for monitoring CIP sets for determining flow velocities, as well as determining total water use on automated washers and factory hygiene water supplies. The strong signal output and the noise suppression technology make it possible to use the FLUXUS F401 on a wide range of pipes sizes and materials, including stainless steel and plastics.

All parts of the FLUXUS F401 have been designed to ensure utmost robustness for regular heavy-duty use in industrial/food and beverage manufacturing environments. The metal sheathing of the transducer cable ends protects them against strong bending or cuts and ensures tangle-free operation. The six-metre cable length of the IP68 transducers allows for the installation of the transducers in the most inaccessible locations. The transmitter is housed in a robust case and has IP67 protection.

### Advantages:

- Several months battery-powered operation time
- Extremely robust design
- Ideal for long field campaigns
- Metal cable sheathing
- Permanent coupling pads
- IP68 transducers



### Technical Facts:

Operating temperature of the transmitter	-10°C to 50°C
Operating temperature of the transducers at pipe wall	-40°C to 100°C
Degree of protection Transmitter	IP67
Degree of protection Transducers	IP68
Outputs	1x Current, 1x Binary
Communication Interface	RS232 / USB (with adapter)
Pipe diameter range	60 - 150mm / 40 - 1100mm extended range
Data logger	>100,000 values
Flow velocity range	0.01 to 25 m/s (metres/second)
Measurement accuracy	±2.0% of reading ±0.01 m/s
Repeatability	0.25% of reading ± 0,1 m/s
Medium	Water with <6% gaseous or solid content by volume

Item	Order Code	Quantity	Price
Fluxus F401 Flow Meter	TEST0220	1	£6,000.00

## Fluxus F501 Flow Meter

The FLUXUS F501 is a non-invasive clamp on flow meter for permanently mounting on to a pipe for monitoring fluid velocities and fluid volumes on a water ring main, chemical supply line, CIP set or an automated washer, an ideal solution for retrofitting into existing networks. As there is no need for interruption of supply lines, it is a much more cost-effective solution in comparison to conventional inline metering technologies such as electromagnetic flow meters.



The FLUXUS F501 is a non-invasive clamp on flow meter for permanently mounting on to a pipe for monitoring fluid velocities and fluid volumes on a water ring main, chemical supply line, CIP set or an automated washer, an ideal solution for retrofitting into existing pipework. As there is no need for interruption of supply lines it is a much more cost-effective solution in comparison to conventional inline metering technologies such as electromagnetive flow meters.

Due to the non-invasive technology, no cutting or welding work is needed to mount the transducers on to the pipe and it is therefore the ideal solution for retrofitting into existing pipework. During installation, the flow meter's user interface is automatically adapted to the connected transducers and no zeroing is necessary. Water is already pre-selected as a medium and its physical properties are stored in the flowmeter's memory. In most cases only the pipe's outer diameter and wall thickness as well as the water temperature has to be entered in order to start the measurement. The commissioning work is thus reduced to a minimum.

The FLUXUS F501 offers a precise bi-directional flow measurement over a wide turndown ratio - not only at high, but especially at low flow velocities. Due to its matched and paired IP67 rated transducers, it also guarantees a superior zero stability.

### Advantages

- Precise bi-directional, highly dynamic flow measurement
- Water-tight transducers (IP67) for use in the presence of heavy water spray
- Virtually maintenance free - permanent coupling pads instead of frequent regreasing
- Simple retrofitting in existing networks and systems - no need for pipe work
- User-friendly menu navigation - the firmware is specifically adapted to the needs or process outages of water users
- For nominal pipe diameters of 10mm up to 2500mm - highly cost effective
- Superior pipeline leak detection - high repeatability of accurate measurement readings
- Digital Signal Processing ensuring stable and reliable results even under difficult measurement conditions
- High measuring accuracy, even at low flow velocities due to matched transducers

### Technical Facts

Operating temperature of the transducers at pipe wall	-40°C to 100°C
Degree of protection Transducers	IP67
Outputs	1x 4-20mA active, 2 x pulse/binary
Digital communication (available options at extra cost)	Modbus RTU, BACnet MS/TP, M-Bus
Pipe diameter range	10 - 150mm; additional cost options up to 2.4m
Flow velocity range	0.01 to 25 m/s (metres/second)
Repeatability	0.25% of reading ± 0,1 m/s
Power supply	230VAC, 12/24VDC
Measurement accuracy	± 1.5% of reading ± 0.1 m/s
Available transducer	Shear Wave

Item	Order Code	Quantity	Price
Fluxus F501 Flow Meter	TEST0221	1	£3,000.00

## Manometer

**Description:** A simple to use tool to allow the instant measurement of water pressures from a hose outlet on a ring main or rinse water system.

**Recommended for:** The Manometer is connected to a hose outlet pipe, replacing the hose gun. Using the in-built valve, the flow of water through the Manometer can be controlled and the water pressure is displayed on the dial pressure gauge.

### Features include:

- 63mm Dial pressure gauge (0-1500 PSI/0-100 Bar), glycerine filled
- ½ " BSP ball valve
- ½ " male and female couplings



Item	Order Code	Quantity	Price
Manometer	TEST0222	1	£129.00

# Sample Containers

## Aseptic Sample Dipper Pots

**Description:** Blue polypropylene sample dipper pots

**Recommended for:** Blue polypropylene bottle with snap handle and screw cap. The containers are designed for sample collection and dispatch, for testing in the same container, eliminating the risk of cross-contamination.

Item	Order Code	Quantity	Price
125ml Aseptic Sample Dipper Pots	TEST0204	Box of 100	£129.00
100ml Aseptic Sample Dipper Pots	TEST0203	Box of 50	£60.00



## 200ml Sterile & Aseptic Sample Containers

**Description:** Clear 200ml sample containers

Graduated PP sample containers are an ideal choice for storing diluted bases and acids, and for applications where containers need to keep their shape after bending and flexing. Each container comes with a PE snap cap for a leakproof seal.

Containers are protected from particle contamination during shipping. Containers arrive at your site enclosed in a PE bag packed inside a box with a label to show the lot number and expiration date for tracing purposes.

- Keep samples safe inside a leakproof PP snap-cap container
- Highly resistant to chemicals
- Extremely shockproof to easily take impacts around the workplace
- Precise container filling with the help of the moulded graduation marks
- Convenient writing area on the container for labelling with a pen or marker



Item	Order Code	Quantity	Price
200ml Sterile Sample Containers	TEST0158	Box of 220	£70.00
200ml Aseptic Sample Containers	TEST0159	Box of 220	£60.00

# Metal Detectable Stationery

**Description:** A range of blue metal detectable equipment which has been developed for food processing and similar applications. Made from metal detectable X-Ray visible polypropylene materials which are high impact resistant.

Item	Order Code	Quantity	Price
Metal Detectable Pen	TEST0165	1 Pack of 50 Pens	£39.00
Metal Detectable A4 Clipboard with Stainless Steel Clip	TEST0166	1	£12.00
150mm Metal Detectable Ruler	TEST0167	1	£5.00
Metal Detectable Stopwatch	TEST0168	1	£12.00
Metal Detectable Electronic Timer	TEST0169	1	£12.00
Metal Detectable Desktop Calculator	TEST0170	1	£19.00
5 Metre Metal Detectable Tape Measure	TEST0171	1	£20.00



LEADERS IN HYGIENE TECHNOLOGY

HOLZCHEM





Gateway House  
Pilsworth Road  
Pilsworth Industrial Estate  
Bury  
Greater Manchester  
BL9 8RD

Telephone: 01706 222288

Web: [www.holchem.co.uk](http://www.holchem.co.uk)