



# COSMETICS & PERSONAL CARE

**Microbiology**



**HARDY**  
DIAGNOSTICS

*A Culture of Service™*

# COSMETICS & PERSONAL CARE

## Microbiology

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# Environmental Monitoring

Contact Plates for Surface Sampling



# LOK™ TIGHT

## Non-Irradiated Contact Plates

### **Tryptic Soy Agar with Lecithin and Tween® 80, USP**

For the cultivation  
and enumeration  
of microorganisms.

10/pk

P34

### **Sabouraud Dextrose Agar (SabDex) with Lecithin & Tween® 80**

For the cultivation of fungi.

10/pk

P46

## Improved design with friction-fit lid and locking mechanism



1. Remove lid from plate.



2. Gently press plate to surface without  
twisting or sliding.



3. Twist clockwise until frosted bands  
line up and lid locks into place. Incubate  
per your regulatory guidelines. Record  
your results.



4. Friction Lid design keeps lid in place.  
Locking feature ensures lids stay secured.

### **Malt Extract Agar with Lecithin and Tween® 80**

For the cultivation of fungi.

10/pk

P93

## Irradiated Contact Plates

### **Tryptic Soy Agar with Lecithin and Tween® 80, USP**

For the cultivation  
and enumeration of  
microorganisms.

Irradiated, triple bagged,

10/pk

P365

Red tinted plate, irradiated,  
triple bagged,

10/pk

P365R

### **Sabouraud Dextrose Agar with Lecithin and Tween® 80, USP**

For the cultivation of fungi.

Irradiated, triple bagged,

10/pk

P385

# Environmental Sampling Swabs



## EnviroTrans™ Swab Kit (Pre-moistened)

**A ready-to-use swab and tube pre-filled with solutions to fit your specific needs!**

Collect and transport environmental samples with efficiency and ease. Simply remove the cap and attached Dacron® swab, collect the sample, recap, and send to the lab. The entire unit is terminally sterilized. Excellent for detection or enumeration of microorganisms from environmental surfaces or equipment.

## EnviroTrans™ Neutralizing Buffer

For the detection of microorganisms found on surfaces. Neutralizes chlorine, iodine and quaternary ammonium compounds. Contains no growth factors. Recommended for enumeration methods.

5ml, 20/box SRK15

## EnviroTrans™ Lethen Broth

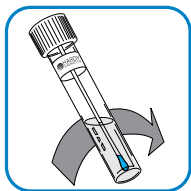
For the detection of microorganisms found on surfaces. Neutralizes phenols, formalin, and ethanol. Contains some growth factors.

5ml, 20/box SRK25

*See our web catalog for a full offering of EnviroTrans™ products*



1. Collect sample



2. Safely transport to the lab



3. Cultivate specimen

## Polyester Tip Sampling Swab, Sterile, 100mm Breakpoint

Plastic applicator shaft with 100mm breakpoint in individually wrapped peel pouch.

100/bx

1U054S01



# ATP Monitoring



## EnSURE™ Touch

### Handheld Luminometer for ATP hygiene monitoring

EnSURE™ Touch is an advanced monitoring system that collects, analyzes and reports data from a variety of long-trusted quality tests, providing rapid and accurate sanitation verification data. Featuring a 5-inch touch screen, wireless sync technology, and cloud-based software, the EnSURE™ Touch is designed to adapt to your workplace, providing the data you need for complex multi-location supply chain monitoring, audit and risk management, and recall prevention.

Each

ETOUCH

#### Run multiple tests on one system in just a few taps

EnSURE™ Touch 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.

#### Minimal size, maximum durability

Don't let the petite shape fool you - EnSURE™ Touch makes no compromises when it comes to durability. The rugged outer shell and shatter-proof touchscreen keep EnSURE™ Touch safe in the harshest environments. For extra protection, every system comes with a complimentary carrying case with a shoulder strap for hands-free transportation to test locations in your facility.

## ATP Tests by Hygiena

Product	Specifications	Quantity	Cat. no.
UltraSnap™	Surface ATP test	100/bx	US2020
SuperSnap™	High-sensitivity surface ATP test	100/bx	SUS3000
AquaSnap™ Total	Total water ATP test	100/bx	AQ100X



**TRIO.BAS™**  
BIOLOGICAL AIR SAMPLER

# Air Sampling

## MINI

### Each kit includes:

TRIO.BAS™ MINI BLUETOOTH air sampler, battery charger and cable, aspirating head, cover head, LIGHT carrying case, and calibration certificate.

***Ideal for use in less critical environments***



### Features:

- Aspirating head with quick bayonet closure system for easy manipulation
- Lightweight: Significantly lighter than industry counterparts
- Rechargeable via external port using standard wall charger
- Note: Sampling data must be manually recorded with the MINI
- IQ OQ PQ documents sold separately

MINI Kit, 100 liters/min., contact plate	BAS152K
MINI Kit, 100 liters/min., mono plate	BAS153K
MINI Kit, 200 liters/min., contact plate	BAS162K
MINI Kit, 200 liters/min., mono plate	BAS163K



## MINI CompactDry™

Especially designed for CompactDry™ media

### Each kit includes:

TRIO.BAS MINI air sampler, charging cable, stainless steel aspirating head, protective cover head, and carrying case.

MINI Kit, 100 liters/min BAS255K

*(CompactDry™ plates sold separately).*



**TRIO.BAS**<sup>TM</sup>  
BIOLOGICAL AIR SAMPLER

## MONO

### Each kit includes:

TRIO.BAS<sup>TM</sup> MONO air sampler, induction battery charger and cable, aspirating head, cover head, ROBUSTUS carrying case, calibration certificate, and IQ, OQ, PQ fillable documents.

### *Data transfer to PC capability*



### Features:

- Delayed interval sampling and remote start capabilities
- Data transfer capability via Bluetooth requires purchase of BAS296 software
- Aspirating head with quick bayonet closure system for easy manipulation
- Lightweight: lighter than industry counterparts
- Charges via induction base charger. No plugs or external connections

MONO Kit, 100 liters/min., contact plate	BAS200K
MONO Kit, 100 liters/min., mono plate	BAS201K
MONO Kit, 200 liters/min., contact plate	BAS205K
MONO Kit, 200 liters/min., mono plate	BAS206K



# TRIO.BAS™ DUO

BIOLOGICAL AIR SAMPLER



**BEST  
SELLER**

### Each kit includes:

TRIO.BAS™ DUO air sampler, induction battery charger and cable, aspirating heads, cover heads, ROBUSTUS carrying case, calibration certificate, and IQ, OQ, PQ fillable documents.

### Features:

- Two aspirating heads for sampling on separate plates to determine bacterial and yeast/mold counts
- Programmable for simultaneous or interval aspirating times
- Delayed interval sampling and remote start capabilities
- Data transfer capability via Bluetooth requires purchase of BAS296 software
- Aspirating head with quick bayonet closure system for easy manipulation
- Charges via induction base charger. No plugs or external connections



DUO Kit, 100 liters/min., contact plate	BAS220K
DUO Kit, 100 liters/min., mono plate	BAS221K
DUO Kit, 200 liters/min., contact plate	BAS225K
DUO Kit, 200 liters/min., mono plate	BAS226K

# Air Sampling Media

## Petri Plates

### Irradiated Plates

#### **Sabouraud Dextrose (SabDex) Agar SterEM™, USP**

For the cultivation of fungi.  
Irradiated, triple bagged.  
15x100mm, deep fill plate, 10/pk W565

#### **Tryptic Soy Agar (TSA), SterEM™, USP**

General growth medium for the detection and enumeration of microorganisms.  
Irradiated, triple bagged.  
15x100mm, deep fill plate, 10/pk W540

### Non-Irradiated Plates

#### **Malt Extract Agar (MEA)**

For the cultivation and enumeration of yeasts and molds.  
15x100mm plate, 10/pk W28

#### **Sabouraud Dextrose (SabDex) Agar, USP**

For the cultivation of fungi.  
15x100mm, deep fill plate, 10/pk W70

#### **Tryptic Soy Agar (TSA), USP**

General growth medium for the detection and enumeration of microorganisms.  
15x100mm plate, deep fill, 10/pk W64

## Contact Plates

### Irradiated Plates

#### **Sabouraud Dextrose (SabDex) with Lecithin and Tween® 80, USP**

For the cultivation of fungi. Featuring LokTight™ friction lid. Irradiated, triple bagged.  
15x65mm, 10/pk P595

#### **Tryptic Soy Agar (TSA) with Lecithin and Tween® 80, USP**

For the cultivation and enumeration of microorganisms. Featuring LokTight™ friction lid. Irradiated, triple bagged.  
15x65mm, 10/pk P520

### Non-Irradiated Contact Plates

#### **Malt Extract Agar (MEA) with Lecithin and Tween® 80**

For the cultivation and enumeration of yeasts and molds. Featuring LokTight™ friction lid.  
15x65mm, 10/pk P93

#### **Sabouraud Dextrose (SabDex) Agar**

For the cultivation of fungi. Featuring LokTight™ friction lid, for surface testing.  
15x60mm, 10/pk P36

#### **Tryptic Soy Agar (TSA) with Lecithin and Tween® 80, USP**

For the cultivation and enumeration of microorganisms. Featuring LokTight™ friction lid.  
15x65mm, 10/pk P34



# Serial Dilutions

Diligent® Shaker for use with Dilucup® Elegance!

by LabRobot

The Diligent® Shaker uses orbital rotation to make sure each dilution is thoroughly vortexed. It is activated by either a hands-free optical sensor or the optional foot pedal. The 42 LED indicators light each cup, letting you easily see which dilution well you are in.



## Features:

- Dimensions: 38cm x 29.5cm x 5cm
- 7" touch screen
- Two optical sensors, one at each side
- Can create and store testing templates, ensuring standardization of method
- Programming with intuitive software
- 6 rows for 42 cups (7 x 6)
- Removable magnetic tray
- Export data to USB
- Bar code reading (*Diligent® and Diligent® Pro only*)
- Able to record sample ID and user ID (*Diligent® and Diligent® Pro only*)
- Full connectivity to LIMS (*Diligent® Pro only*)
- Optional footswitch, Cat. no. 40FS02

## Diligent® Shaker Light

Cat. no

Store up to 2 templates. Data retrieval is manual only.

40DGT84LT

## Diligent® Shaker Standard Version

Cat. no

Record sample ID, technician or user ID. Bar code scanner capability. Store up to 10 templates. Export data to USB.

40DGT84SD

## Diligent® Shaker Pro

Cat. no

LIMS connectivity and traceability for data. Record sample ID, technician or user ID. Bar code scanner capability. Store up to 10 templates.

40DGT84PO



## Serial Diluents

**ROOM  
TEMPERATURE  
STORAGE**



### Dilucup® Elegance BFD (Butterfield's Phosphate Buffer)

**Cat. no.**

Butterfield's Phosphate Buffer, dilution blank, 9ml fill, ready-to-use cups, 2 trays of 8x42 cups, 6 cups per row, 672 total cups

40DEBFD6

### Dilucup® Elegance BPW (Buffered Peptone Water)

**Cat. no.**

Buffered Peptone Water, dilution blank, 9ml fill, ready-to-use cups, 2 trays of 8x42 cups, 6 cups per row, 672 total cups

40DEBPW6

# Pre-filled Dilution Vials



Prefilled Dilution Vials

**A wide 45mm opening accommodates large samples. A flip-top lid allows for easy one-handed opening.**

**Features:**

- 145ml polypropylene vial
- Flip-top lid



### Butterfield's Phosphate Buffer

90ml fill, 50 pk D590

99ml fill, 50 pk D599

### Buffered Peptone Water, Irradiated

99ml fill, 50 pk D089

### Deionized Water

90ml fill, 50 pk D090

99ml fill, 50 pk D099

### Peptone Water, 0.1%, Irradiated

90ml fill, 50 pk D290

99ml fill, 50 pk D299

### Phosphate Buffer with MgCl<sub>2</sub>

90ml fill, 50 pk D690

99ml fill, 50 pk D699

### TAT Broth, Irradiated

90ml fill, 50 pk D077

# Prepared Culture Media

## Sample Preparation and Water-Miscible Products

### D/E Neutralizing Broth

For neutralizing and evaluating the efficacy of antiseptics and disinfectants.

16x125mm tube, 20/pk K108

180ml wide mouth jar, 90ml fill, 12/pk U75

1L bottle, 750ml fill, 10/pk U76

### Phosphate Buffered Saline (PBS), pH 7.5

For quantitative culturing or as a rinsing agent in microbiological, immunological, histological and molecular testing procedures.

125ml bottle, 100ml fill, 20/pk U137

### Tween® 80

For microbial testing of personal care products.

240ml wide mouth jar, 10ml fill, 12/pk U16

500ml bottle, 500ml fill, each U180

### Water, Deionized

For the preparation of dilutions and suspensions.

50ml centrifuge tube, 10ml fill, 25/pk X61

## Microbial Enumeration

### Letheen Agar

For the determination of bactericidal activity in quaternary ammonium compounds and in the microbial enumeration of cosmetics.

15x100mm plate, 10/pk G42

### Letheen Agar Modified, with Tween® 80, 1.5%

For the determination of bactericidal activity in quaternary ammonium compounds and in the microbial enumeration of cosmetics.

15x100mm plate, 28ml fill, 10/pk W55

### Letheen Broth

For the evaluation of bactericidal activity of quaternary ammonium compounds.

16x125mm tube, 9ml fill, 20/pk K207

16x125mm tube, 10ml fill, 20/pk K106

1L bottle, 1,000ml fill, 10/pk U371

### Letheen Broth, Modified

For the determination of bactericidal activity in quaternary ammonium compounds and in the microbial enumeration of cosmetics.

16x125mm tube, 9ml fill, 10/pk K293

240ml wide-mouth jar, 90ml fill, 12/pk U293

### R2A Agar

For the enumeration of heterotrophic bacteria in water, especially potable water.

15x100mm plate, 10/pk G54

### Standard Methods Agar (Plate Count Agar)

For the cultivation and enumeration of microorganisms.

15x100mm plate, 10/pk G43

### Standard Methods Agar

(Plate Count Agar), Cat. no. G43



# General Growth

## BHI (Brain Heart Infusion) Agar

For the cultivation of microorganisms.  
15x100mm plate, 10/pk W15

## BHI (Brain Heart Infusion) Broth

For the cultivation of microorganisms.  
13x100mm tube, 5ml fill, 20/pk R20  
16x100mm tube, 20/pk K27  
16x125mm tube, 20/pk K25

## Brucella Agar with Hemin and Vitamin K

For the cultivation of anaerobes.  
15x100mm plate, 10/pk A30

## Chocolate Agar

For the enriched cultivation of fastidious bacteria.  
15x100mm plate, 10/pk E14

## TAT Broth

For the detection of microorganisms from topical drugs, cosmetics, and other viscous materials.  
20x125mm tube, 9ml fill, 20/pk K251  
125ml wide mouth bottle, 99ml fill, 50/pk U399  
120ml bottle, 90ml fill, 20/pk U87  
120ml bottle, 99ml fill, 20/pk U78  
240ml wide mouth jar, 90ml fill, 12/pk U77  
240ml wide mouth jar, 99ml fill, 12/pk U88  
1L bottle, 1L fill, 10/pk U319

## Thioglycollate Broth with Indicator

For the cultivation of microorganisms. Filtered to remove dead bacteria.  
16x125mm tube, 20/pk K21

## TSA (Tryptic Soy Agar) with Lecithin and Tween® 80

For use as a general growth medium for the isolation and cultivation of microorganisms.  
15x100mm plate, 10/pk G41  
15x100mm plate, 27ml deep fill, 10/pk W41  
500ml bottle, 400ml fill, 10/pk U174

## TSA (Tryptic Soy Agar), USP

For use as a general growth medium for the isolation and cultivation of microorganisms.  
15x100mm plate, 10/pk G60  
15x150mm plate, 69ml fill, 10/pk H19

## TSB (Tryptic Soy Broth) with Lecithin and Tween® 80, USP

For the cultivation of a wide variety of fastidious and nonfastidious microorganisms from non-clinical specimens.  
240ml wide mouth jar, 90ml fill, 12/pk U134G

## TSB (Tryptic Soy Broth), USP

For the isolation and cultivation of a wide variety of bacteria and fungi.  
180ml wide mouth jar, 100ml fill, 12/pk U71

# Mold, Yeast and Fungi

## Malt Extract Agar

For the selective isolation of fungi.  
15x100mm, deep fill plate, 10/pk W28

## Malt Extract Agar with Chloramphenicol

For the selective isolation of fungi.  
15x100mm, deep fill plate, 10/pk W80



Chocolate Agar, Cat. no. E14

### Potato Dextrose Agar, USP

For the cultivation of yeast and mold, and for the inducement of sporulation in non-clinical samples.

15x100mm plate, 10/pk W60

### Potato Dextrose Agar Slant, USP

For the cultivation of yeasts and molds.

20x125mm tube, 20/pk L90

### Sabouraud Dextrose (SabDex) Agar, USP

For the isolation, cultivation, and maintenance of non-pathogenic and pathogenic species of fungi and yeasts.

15x100mm plate, 10/pk W70

500ml bottle, 500ml fill, 10/pk U353

### Sabouraud Dextrose (SabDex) Agar with Chloramphenicol

For the selective isolation of fungi and yeasts from clinical and non-clinical specimens.

15x100mm plate, 10/pk W72

### Sabouraud Dextrose (SabDex) Agar with Chloramphenicol and Tetracycline

For the selective isolation of fungi.

15x100mm plate, 26ml fill, 20/pk W74

### Sabouraud Dextrose (SabDex) Agar with Lecithin and Tween® 80

For the isolation and cultivation of fungi and the neutralization of disinfectants.

500ml bottle, 400ml fill, 10/pk U175

## Selective Enrichment, Cultivation, or Detection of Gram-Negative Bacteria

### Burkholderia cepacia Selective Agar (BCSA)

For the selective isolation and differentiation of *Burkholderia (Pseudomonas) cepacia*.

15x100mm plate, 10/pk G09

### BBE Agar (Bacteroides Bile Esculin)

For the selective isolation and detection of *Bacteroides fragilis* group.

15x100mm plate, 10/pk G05

### Cetrimide Select Agar, for Pseudomonas, USP

For the selective isolation of *Pseudomonas aeruginosa*.

15x100mm plate, 10/pk G18

### EE Broth Mossel, USP

For use in the selective enrichment and detection of *Enterobacteriaceae*.

180ml wide mouth jar, 90ml fill, 12/pk U291

### EMB (Eosin Methylene Blue) Levine Agar

For isolation and differentiation of Gram-negative bacilli.

15x100mm plate, 10/pk G25

### HardyCHROM™ Bcc

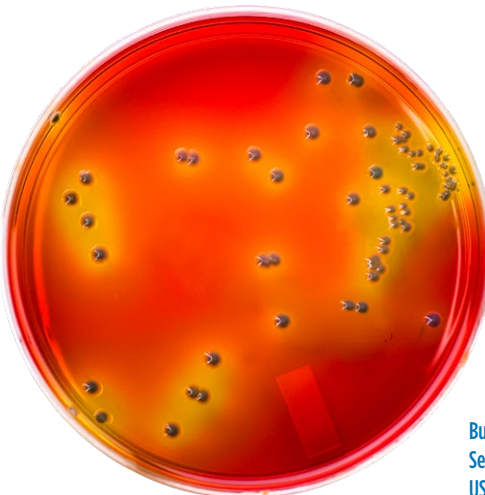
For selective isolation and differentiation of *Burkholderia cepacia*, and other closely related species, based on colony color.

15x100mm plate, 10/pk G335

### HardyCHROM™ ECC

A chromogenic medium recommended for the detection, differentiation, and enumeration of *Escherichia coli* and other coliforms.

15x100mm plate, 10/pk G303



*Burkholderia cepacia*  
Selective Agar (BCSA),  
USP, Cat. no. G09

### Lactose Broth

For the cultivation of coliforms and as a pre-enrichment for the recovery of *Salmonella* spp.

360ml wide mouth bottle, 225ml fill, 12/pk U146

### LKV Agar

For the selective isolation of Gram-negative anaerobic bacteria, especially *Bacteroides* spp.

15x100mm plate, 10/pk A60

### MacConkey Agar, USP

For the isolation and differentiation of Gram-negative bacteria, especially the *Enterobacteriaceae* group. Advanced formula controls the swarming of *Proteus*.

15x100mm plate, 10/pk G35

### Malonate Broth

For the differentiation of Gram-negative bacilli based on malonate utilization.

15x103mm tube, 5ml fill, 20/pk K36

### Moeller's Arginine Decarboxylase

For the differentiation of Gram-negative enteric bacilli based on the decarboxylation reaction of amino acids.

16x125mm tube, 5ml fill, 20/pk Y42

### Motility Nitrate

For the detection of motility and nitrate reduction of non-fermentative Gram-negative bacilli.

13x100mm tube, 3ml fill, 20/pk Y23

### MR-VP (Methyl Red - Voges Proskauer) Broth

For the identification of Gram-negative bacilli.

15x103mm tube, 5ml fill, 20/pk K37

### Pseudomonas Isolation Agar

For the selective isolation of *Pseudomonas aeruginosa*.

15x100mm plate, 10/pk G219

15x60mm plate (membrane filtration format), 10/pk G145

### Simmons Citrate Agar Slant

For use in the differentiation of Gram-negative enteric bacilli based on citrate utilization.

16x100mm tube, 20/pk L80

### TSI (Triple Sugar Iron) Agar Slant

For the differentiation of Gram-negative bacilli based on carbohydrate fermentation and H<sub>2</sub>S production.

16x125mm tube, 8ml Slant, 20/pk L50

### Violet Red Bile with Glucose Agar (VRBGA), USP

For the detection of *Enterobacteriaceae* in non-sterile products.

15x100mm plate, 10/pk G178

## Selective Enrichment, Cultivation, or Detection of Gram-Positive Bacteria

### Baird-Parker Agar

For the selective detection and enumeration of coagulase-positive staphylococci.

15x100mm plate, 10/pk G96

### BEA (Bile Esculin Agar) with Azide

For the cultivation and differentiation of group D streptococci and enterococci. Inhibits Gram-negative bacteria.

15x100mm plate, 10/pk G11

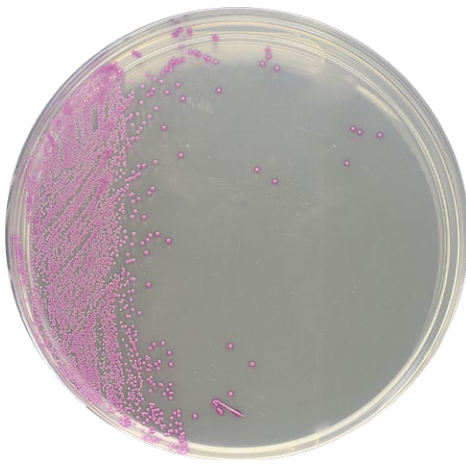
### BEA (Bile Esculin Agar) Slant

For the identification of group D streptococci including enterococci.

16x100mm tube, 20/pk L10



EE Broth Mossel, USP, Cat. no. U291



### HardyCHROM™ Staph aureus

Allows for the rapid and reliable detection of *S. aureus*, which produces deep pink colored colonies. Bacteria other than *S. aureus* may utilize the other chromogenic substrates and produce blue colonies. If none of the substrates are utilized, natural or white colored colonies will be present. 15x100mm plate, 10/pk G311

### Nutrient Gelatin Deep

For the determination of the ability of bacteria to liquefy gelatin. 13x100mm tube, 6ml fill, 20/pk Q23



TAT Broth, Cat. no. U319



OF Dextrose Medium, Cat. no. Y57

### Starch Agar

For the use in the determination of starch hydrolysis by microorganisms. 15x100mm plate, 20/pk G294

### SF Broth

For the differentiation of group D enterococci from group D non-enterococci. 16x125mm tube, 20/pk K45

### Vogel and Johnson Agar

For the selective isolation of coagulase-positive, mannitol-positive *Staphylococcus aureus* strains. 15x100mm plate, 10/pk G193

### Gram-Negative or Gram-Positive Speciation

#### OF Mannitol Medium

For the detection of carbohydrate oxidation or fermentation by bacteria. 13x100mm tube, 3ml fill, 20/pk Y53

#### OF Dextrose Medium

For the detection of carbohydrate oxidation or fermentation by bacteria. 13x100mm tube, 3ml fill, 20/pk Y57

#### OF Fructose Medium

For the detection of carbohydrate oxidation or fermentation by bacteria. 13x100mm tube, 3ml fill, 20/pk Y58

### Recovery of Gram-Positive and Gram-Negative Organisms from Viscous Products

#### TAT Broth

For the detection of microorganisms from topical drugs, cosmetics, and other viscous materials. 20x125mm tube, 9ml fill, 20/pk K251  
 125ml wide mouth bottle, 99ml fill, 50/pk U399  
 120ml bottle, 90ml fill, 20/pk U87  
 120ml bottle, 99ml fill, 20/pk U78  
 240ml wide mouth jar, 90ml fill, 12/pk U77  
 240ml wide mouth jar, 99ml fill, 12/pk U88  
 1L bottle, 1L fill, 10/pk U319

# Quality Control Organisms

# EZ·PEC™

## Antimicrobial Effectiveness and Preservative Efficacy Testing

Laboratories perform Antimicrobial Effectiveness and Preservative Efficacy Testing to ensure personal care products are safe and effective. EZ-PEC™ quantitative QC microorganism preparations are designed to provide the required microorganism challenge concentrations for these crucial tests. Each kit includes 20 lyophilized pellets of a single enumerated QC microorganism and 10 vials of hydrating fluid (2ml in each vial).

### Features and Benefits:

- Delivers  $1.0 \times 10^5$  to  $1.0 \times 10^6$  CFU per ml of product tested
- Strains are less than or equal to three passages from the reference culture
- Ready-to-use format saves time and money
- Refrigerated storage is easy and economical
- Certificates of Analysis provide detailed strain information and are available upon request
- Traceability to reference cultures ensures authenticity
- Technical Support experts available for guidance

<i>Aspergillus brasiliensis</i> derived from ATCC® 16404™*	0392PEC
<i>Bacillus spizizenii</i> derived from ATCC® 6633™*	0486PEC
<i>Candida albicans</i> derived from ATCC® 10231™*	0443PEC
<i>Escherichia coli</i> derived from ATCC® 8739™*	0483PEC
<i>Escherichia coli</i> NCIMB 8545	0581PEC
<i>Pseudomonas paraeruginosa</i> derived from ATCC® 9027™*	0484PEC
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> derived from ATCC® 25923™*	0360PEC
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> derived from ATCC® 6538™*	0485PEC



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Derivative™

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# CRITERION™

DEHYDRATED CULTURE MEDIA

Product	Mylar® Zip-Bag Pre-weighed to make 2 liters of media	500gm Jar	2kg Bucket	10kg Bucket
Baird-Parker Agar Base (1)	C5080	C5081	C5082	C5083
Brain Heart Infusion Agar	C5120	C5121	C5122	C5123
Cetrimide Selective Agar Base (2)	C5370	C5371	C5372	C5373
D/E Neutralizing Broth	C7370	C7371	C7372	C7373
D/E Neutralizing Agar	C5520	C5521	C5522	C5523
EMB Agar, HHT	C7330	C7331	C7332	C7333
EMB Agar, Levine	C5700	C5701	C5702	C5703
Hektoen Enteric (HE) Agar	C5840	C5841	C5842	C5843
Lactobacilli MRS Broth	C5930	C5931	C5932	C5933
Lauryl Tryptose Broth	C5980	C5981	C5982	C5983
Lethen Agar	C7360	C7361	C7362	C7363
Lethen Agar, Modified	C7900	C7901	C7902	C7903
Lethen Broth	C6020	C6021	C6022	C6023
Lethen Broth, Modified	C7640	C7641	C7642	C7643
MacConkey Agar	C6130	C6131	C6132	C6133
MacConkey Agar with MUG	C6110	C6111	C6112	C6113
Mannitol Salt Agar	C6230	C6231	C6232	C6233
Malt Extract Agar	C6200	C6201	C6202	C6203
Nutrient Broth	C6470	C6471	C6472	C6473
Potato Dextrose Agar (PDA)	C6620	C6621	C6622	C6623
Pseudomonas Isolation Agar Base (2)	C6680	C6681	C6682	C6683
R2A Agar	C6720	C6721	C6722	C6723
SabDex Agar	C6810	C6811	C6812	C6813
SabDex Agar with Chloramphenicol	C6780	C6781	C6782	C6783
SabDex with Lecithin and Tween®	C6800	C6801	C6802	C6803
Starch Agar	C7010	C7011	C7012	C7013
TAT Broth Base (4)	C7030	C7031	C7032	C7033
Triple Sugar Iron (TSI) Agar	C7110	C7111	C7112	C7113
Tryptic Soy Agar (TSA)	C7120	C7121	C7122	C7123
Tryptic Soy Agar with Lecithin and Tween®	C7130	C7131	C7132	C7133

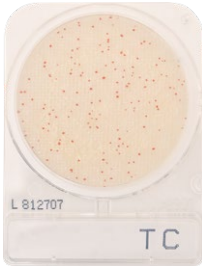
Product	Mylar® Zip-Bag Pre-weighed to make 2 liters of media	500gm Jar	2kg Bucket	10kg Bucket
Tryptic Soy Broth (TSB)	C7140	C7141	C7142	C7143
Tryptic Soy Broth (TSB) No. 2	C9140	C9141	C9142	C9143
Tryptic Soy Broth with Bile Salts No. 3	C8230	C8231	C8232	C8233
Tryptic Soy Broth with Indicator	C8060	C8061	C8062	C8063
Tryptic Soy Broth without Dextrose	-----	C8121	-----	-----
Urea Agar Base Concentrate	C7230	C7231	C7232	C7233
Vogel and Johnson Agar Base (3)	C7280	C7281	C7282	C7283
XLD Agar	C7320	C7321	C7322	C7323

- (1) Egg Yolk Tellurite Emulsion, 100%, 1x100ml , Cat. no. R450330
- (2) Requires the addition of glycerol
- (3) Potassium Tellurite (3.5%), 10x2ml vials, 100gm, Cat. no. SR030J
- (4) Requires the addition of Tween® 20



# CompactDry™ Colony Count Plates

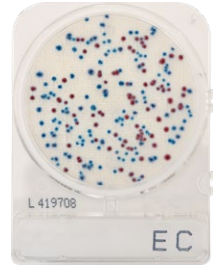
Colony Counting Simplified



**Total Count**  
240/pk 54081



**Total Count Rapid**  
240/pk 54088



**E. coli and Coliforms**  
240/pk 54082



**Yeast and Mold**  
240/pk 54083



**Yeast and Mold Rapid**  
240/pk 54084



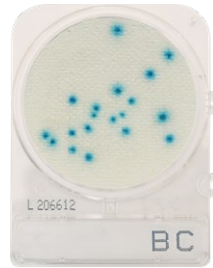
**Salmonella**  
240/pk 54085



**Staphylococcus aureus**  
240/pk 54086



**Pseudomonas aeruginosa**  
100/pk PA100



**Bacillus cereus**  
100/pk XBC100



**Enterobacteriaceae**  
100/pk ETB100

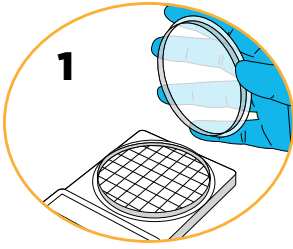


**Coliforms**  
240/pk 54053



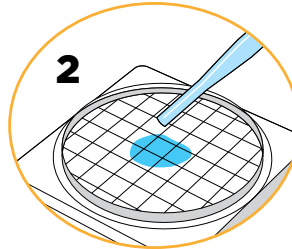
**Listeria**  
100/pk LS100

# How to Use



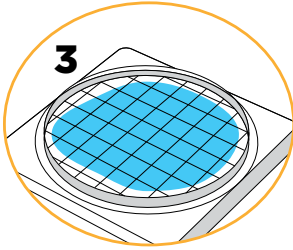
1

Remove protective lid from CompactDry™ plate.



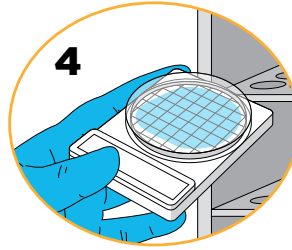
2

Drop 1ml of sample (dilute if necessary) in the middle of dry media.



3

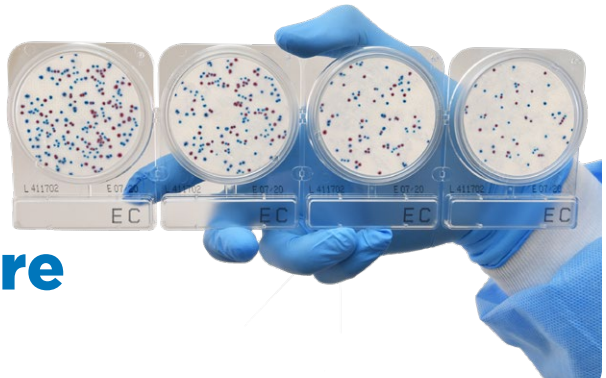
Sample diffuses automatically, transforming the dry medium to gel.



4

Re-cap and incubate for prescribed time.

## Incubation Temperature and Time



CompactDry™ Product	Incubation Temperature	Incubation Time
Total Count Rapid	35 °C	24 hrs.
Total Count	35 °C	44-48 hrs.
<i>E. coli</i> & Coliforms	35 °C	20-24 hrs.
Yeast and Mold	25 °C	3-5 days
Yeast and Mold Rapid	25 °C	72 hrs.
<i>Staphylococcus aureus</i>	35 °C	24 hrs.
Enterobacteriaceae	35-37 °C	24 hrs.
<i>Listeria</i>	35-37 °C	24-28 hrs.
<i>Salmonella</i>	41-43 °C	20-24 hrs.
Coliform	35 °C	24 hrs.
<i>Bacillus cereus</i>	29-31 °C	22-26 hrs.
<i>Pseudomonas aeruginosa</i>	35 °C	48 hrs.

# Anaerobic Microbiology anaero<sub>2</sub>GRO™

## Pre-Reduced Anaerobic Culture Media

### MultiPak A, Brucella with Hemin and Vitamin K Monoplate, PEA Monoplate, and BBE/LKV Biplate

Recommended for use in the primary isolation, enumeration, and partial identification of obligately anaerobic microorganisms. The medium is also suitable for the growth of aerobic and microaerophilic bacteria when incubated under the appropriate conditions.

### Plate 1: Monoplate:

- Brucella Agar with Hemin and Vitamin K

### Plate 2: Monoplate:

- Anaerobic PEA Agar

### Plate 3: Biplate:

- Section I: BBE (Bacteroides Bile Esculin) Agar
- Section II: LKV (Laked Blood with Kanamycin and Vancomycin) Agar

Three 15x100mm plates

AG303



### Brucella Agar with Hemin & Vitamin K

For use in the primary isolation, enumeration, and partial identification of obligately anaerobic microorganisms. The medium is also suitable for the growth of aerobic and microaerophilic bacteria when incubated under the appropriate conditions.

1 plate/pk

AG301

4 plates/pk

AG304

## Anaerobe Jar

This anaerobic jar is specially fabricated for temperature stability and durability. The 3/8" thick anodized aluminum lid allows increased resistance to warping, cracking, and breakage. Shipped complete with a stainless steel rack to accommodate 100mm Petri plates. Double screw clamp, coupled with the patented Quad Ring, ensures a more secure seal, superior to conventional O-rings. It also doubles as a handy carrying handle.

Each 16000



## AnaeroGen™ 2.5 Liter Sachets

AnaeroGen™ is a simple-to-use system for rapidly generating an anaerobic environment necessary to cultivate anaerobic microorganisms within a sealed jar. Each sachet generates enough gas for a 2.5 liter jar.

10 sachets/bx AN25US

## AnaeroGen™ Compact

AnaeroGen™ Compact is a simple-to-use system for rapidly generating an anaerobic environment necessary to cultivate anaerobic microorganisms. The AnaeroGen™ Compact system consists of an anaerobic environment-producing sachet, oxygen impermeable pouch, and sealing clip (sold separately). Each pouch is large enough to hold four 15x100mm Petri plates.

- No catalyst needed and no water required for activation
- No potentially explosive hydrogen gas produced
- No dangerous build-up of pressure
- Sachet is activated upon opening
- Final atmosphere generated contains less than 1% oxygen, which is ideal for the growth of anaerobes



Sachets and Pouches, 10/bx AN010C

Sealing Clips, 5/bx (reusable) AN005C

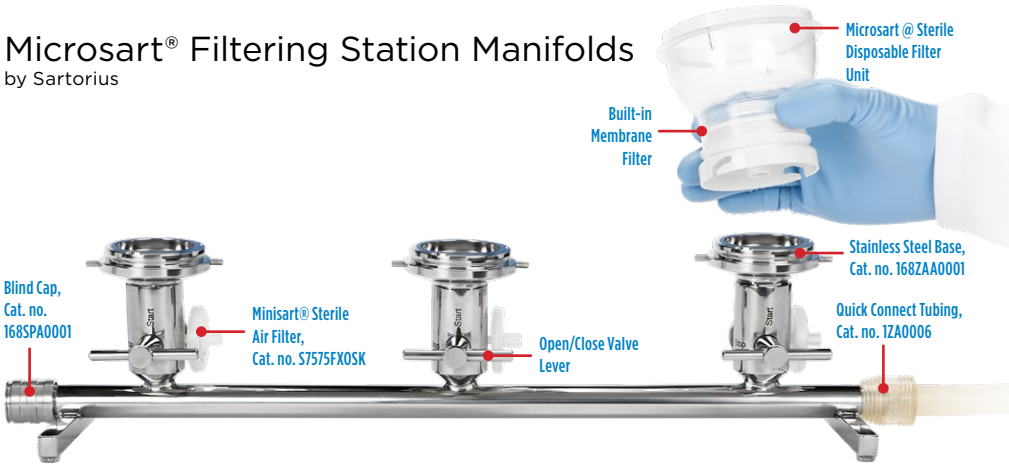
Anaerobic Indicator Strip,  
100 strips/bx BR55

Anaerobic Gas Generator Bags  
20 pouches/bx AG020C

# Membrane Filtration

## Microsart® Filtering Station Manifolds

by Sartorius



Membrane Filtration is the established method of choice for liquid testing, as it provides reliable and reproducible results. Microsart® Manifolds adapt to your individual microbiological testing procedures. Choose the manifold size, from single branch to multi-branch.

- 100% stainless steel
- Autoclavable with no disassembly required
- Stable ergonomic design

1-Branch, each	168M1MS
2-Branch, each	168M2MS
3-Branch, each	168M3MS
6-Branch, each	168M6MS

- Accommodates 100ml and 250ml funnels
- Sterile venting in critical applications reduces risk of secondary contamination



## Microsart® Manifold Accessories

### Filter Adapter

For connecting Polycarbonate Filter holder 16511 with the Microsart® Manifold.

Each 168ZAD0001

### Stainless Steel Blind Coupling

For 1, 3 and 6 place Microsart® Manifold.

Each 168SPA0001

### Stainless Steel Base Support for Microsart® Manifold

For use of 47mm Filter with Microsart® Funnels.

Each 168ZAA0001

### Stainless Steel Base Support for Microsart® Manifold

Filter support for Biosart or stainless Steel Funnels, with sintered frit, for 47-50mm Membrane filter.

Each 168ZAB0001

### Stainless Steel Double Coupling

For connecting two manifolds.

Each 168ZAC0001

# Vacuum Pumps

## for Microsart® Filtering Station Manifolds

### Microsart® e.jet Pump

Laboratory vacuum pump capable of simultaneously creating a vacuum and transferring filtered liquids to waste. Ideal for sample preparation in microbiological analysis. Constant flow rates, and a defined maximum vacuum, guarantee smooth and reliable filtration.



For use with 1, 2 and 3 branch manifolds only

#### Microsart® e.jet Vacuum Pump

Each 166MP4

#### 1 Meter Silicone Vacuum Hose with Quick Connection

Each 1ZAS0016

#### 2 Meter Silicone Pressure-sided Tubing

Each 1ZAS0019

#### 10 Meter Silicone Pressure-sided Tubing

Each 1ZAS0020

#### Quick Connect Silicone Tubing

For connecting manifold with e.jet pump.

Each 1ZA0006

#### Quick Connect Silicone Tubing

For connecting e.jet pump with receptacle flask.

Each 1ZAS0007

#### Quick Connection Coupling

For silicon tubing, PSU.

2/pk 168SPB0001

### Microsart® maxi.vac Pump

The Microsart® maxi.vac Pump provides up-to-date technology for daily use in the microbiology laboratory environment.

- Neoprene membrane pumps
- Low noise level
- Oil-and maintenance-free
- Controlled and easily adjustable vacuum
- Effective vacuum for 1 to 6 place manifolds (per Sartorius site)
- 115 V, 60 Hz

Each 1669416022



# Microsart® Filters

Sterile, Disposable

## 100ml Volume

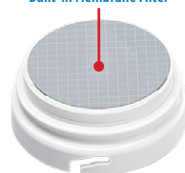
Pore Size	Pack Type	Pk Sz	Cat. no.
0.2µm	Stacked in bag	60	16D011007BL
0.45µm High-Flow	Stacked in bag	60	16D0110H6BL
0.2	Tray	24	16D011007TG
0.45µm High-Flow	Tray	24	16D0110H6TG
0.2µm	Individually Packed	27	16D011007ACG
0.45µm High-Flow	Individually Packed	27	16D0110H6ACG

## 250ml Volume

Pore Size	Pack Type	Pk Sz	Cat. no.
0.2µm	Stacked in bag	48	16D012507BK
0.45µm High-Flow	Stacked in bag	48	16D0125H6BK
0.2µm	Individually Packed	18	16D012507ACF
0.45µm High-Flow	Individually Packed	18	16D0125H6ACF



Built-in Membrane Filter



# Gridded Membrane Filters

## Cellulose Nitrate (CN) Membrane Filter

Individually wrapped on single sheet, sterile packed, 47mm

Filter Color / Grid	Pore Size	Pack Size	Cat. no.
White/black	0.45µm	100	1140647ACN
White/black	0.45µm High-Flow	100	114H647ACN

**\*Individually wrapped on pleated rolls, sterile packed, 47mm**

White/black	0.45µm	300	11406Z47SCM
White/black	0.45µm High-Flow	300	114H6Z47SCM

Membrane filters for colony counting, particle testing and microscopy.



\*For use with Microsart® e.motion Filter Dispenser, Cat. no. 16713BO

# Autof ms1000

## MALDI-TOF Mass Spectrometry

### Cat. no. MS1000

The Autof ms1000 provides automated, high-speed and high-confidence identification and taxonomical laser-induced classification of bacteria, yeasts, fungi, and filamentous fungi based on proteomic fingerprinting. Numerous studies have demonstrated the higher accuracy, faster time-to-result, and lower cost provided by MALDI-TOF technology when compared to classical methods.

### Features:

- Faster time-to-result when compared to conventional methods and PCR
- Cost effective
- Robust, intuitive software, supporting 21 CFR part 11 compliance
- LIMS/LIS connectivity and support
- Can identify 96 samples in less than 20 minutes hands-on time

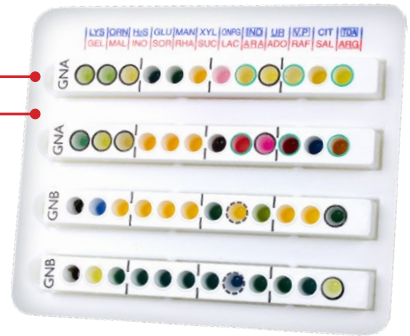
### Local database includes more than

1,077 genera, 5,205 species, and 18,375 strains.



# Rapid ID Systems & Reagents

Product	Cat. no.
Microgen® GN-ID A	MID64CE
Microgen® GN-ID B	MID65
Microgen® ID Software	MID60
SpotDrops Nitrate Reagent A	Z71
SpotDrops Nitrate Reagent B	Z72
SpotDrops Nitrate Reagent C	Z73
SpotDrops Voges-Proskauer Reagent A	Z91
SpotDrops Voges-Proskauer Reagent B	Z92
SpotDrops TDA (Ferric Chloride)	Z63
SpotDrops Indole Kovac's	Z67
Mineral Oil, Heavy	Z79
Ninhydrin	Z70



### Microgen® ID Panels

Microgen® ID panels, in a convenient microwell strip, reduces labor costs, time, and laboratory space.

### Reagents

(Additional reagents may be required, which are not included in the kits)  
Contact Technical Support  
(800.266.2222 ext. 5598)

# Reagents

## Catalase Reagent

Useful in the identification and differentiation of many bacteria such as *Streptococcus* species (catalase-negative) and *Staphylococcus* species (catalase-positive). Catalase positive organisms will produce gas bubbles in the presence of hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>).

Catalase Reagent, hydrogen peroxide 3%.  
15ml dropper bottle, each Z62

Catalase Reagent, hydrogen peroxide 3%.  
60ml bottle, each Z76

Catalase Reagent for Anaerobes,  
hydrogen peroxide 15%.  
15ml dropper bottle, each Z262

## Coagulase Cryo™

The ready-to-use Coagulase Cryo™ is used to differentiate *Staphylococcus* species based on the ability to produce coagulase. No addition of water, no mixing, no measuring required! It contains rabbit plasma, and is used to test for the production of free coagulase. Simply thaw the plastic vial to room temperature, inoculate, and observe for coagulation.

For *Staphylococcus aureus*, 0.5ml in a 2ml vial, ready-to-use.  
20/pk Z202

## CoaguStaph™

Lyophilized rabbit plasma, for the identification of *Staphylococcus aureus* by the coagulase test.

6x3ml, 6/pk Z003

6x20ml, 6/pk Z020

## OxiDrop™ Liquid Oxidase

For testing the oxidase reaction, contains tetramethyl-p-phenylenediamine. Simply place one drop on the suspect colony (directly on the plate) and look for the color reaction. Can also be used on filter paper (Cat. no. 28310048). Positives turn purple.

Each Z119

## OxiStrips™

Paper strips for testing the oxidase reaction. Simply place a drop of water on the strip, then rub on bacteria. Positives turn dark purple within 15 seconds.  
25 strips/pk Z93

## OxiSticks™ Oxidase Swabs

For use in testing the oxidase reaction of bacteria. Simply touch the swab to the colony to be tested and observe for color change.  
25 swabs/vial Z193

## StaphTEX™ Blue

The StaphTEX™ Blue latex agglutination test kit detects both coagulase and Protein A associated with *Staphylococcus aureus*. The entire procedure takes less than one minute. Liquid controls are included, blue beads on a white card for easy read-out.

StaphTEX™ Blue, 50 tests ST50

StaphTEX™ Blue, 200 tests ST200

StaphTEX™ Blue, 1000 tests ST1000



OxiSticks™ Oxidase Swabs  
Cat. no. Z193

# Lab Equipment

## IncuPRO™

### Digital Incubator

The IncuPRO™ Digital Incubator is perfect for incubating cultures, test kits, and many other research and medical procedures that require heating at an economy price. Great for lab benchtops with limited space.

- Includes two shelves and accommodates up to four shelves
- Digital temperature readout with control dial
- Solid door style
- 0.8 cubic feet

Each

133000H



84 Petri plate holder,  
Cat. no. DURA84



Hardy Diagnostics

## DuraRack®

### DuraRack® Petri Plate Holder

For batching, safe transporting and incubating 100mm culture plates. Helps streamline benchtop laboratory processing in your microbiology lab.

- Durable
- Autoclavable
- Coated steel wire rack
- Easy loading and unloading from the top
- Sturdy welded design

60 Petri plate holder,  
7 1/4" W x 12 1/2" L x 6" H  
Each

DURA60

84 Petri plate holder,  
7 1/4" W x 12 1/2" L x 8" H  
Each

DURA84



# Biological Indicators

## SPORAMPULE®

### SporAmpule® Liquid Biological Indicator, for Steam Sterilization

An error-free BI (Biological Indicator) system certified for use with steam sterilization processes. After processing in a normal load, the SporAmpule® is incubated at 58-62 °C for 48 hours. A purple-to-yellow color change and visible turbidity of a processed SporAmpule® indicates sterilizer failure.

20/pk BST20

100/pk BST100

# General Lab Supplies



## Adenna Precision® Nitrile Gloves

Adenna Precision powder-free nitrile exam gloves are ultra-soft and stretchy, designed to be comfortable for long-term wear. They are 100% latex-free and have a textured surface, providing excellent grip for wet and dry applications with superior puncture, tear, and chemical resistance. They are 100% synthetic and latex free. Precision® Nitrile Gloves are thinner for maximum dexterity, but also strong to provide superior barrier protection. Thickness: Finger 4mil, Palm 2.4mil, powder free 1,000/case

Extra Small	PCS770
Small	PCS772
Medium	PCS775
Large	PCS776
Extra Large	PCS778

## Alpet D2 Surface Sanitizer/Disinfectant

- 58% isopropyl + quaternary ammonia
- Clean, sanitize and disinfect surfaces with one product
- 10 second kill on contact surfaces
- Highly evaporative and ideal for water-sensitive equipment and low-moisture environments

1L bottle, 12/pk	SS1000312
5 gallon pail	SS10002



## AloeSafe™ Antiseptic Gel Hand Sanitizer

AloeSafe™ hand sanitizer with ethyl alcohol gel with Aloe Vera, Lavender Oil, and Vitamin E, without the harsh chemicals.

- Formulated with Aloe and Vitamin E to keep from drying
- Lavender Scent
- 62% Ethanol
- No Glycerin
- No Parabens
- Kills 99.9% of Bacteria



16 oz. bottle, Each	AS16HD
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## Face Shield, Full Face, Disposable

Used for protection of the facial areas (eyes, nose, mouth) from sprays, aerosols, and splashes.

- Ideal for healthcare and laboratory workers
- Made from PETG
- Anti-fogging visor



10/pk	MD30331
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## ComfortPRO™ Disposable Lab Coats

These affordable, disposable lab coats are made of tri-laminated material.

- Coats are fully breathable and splash-resistant
- Our lab coats feature snap front buttons, knit cuffs, and knit collars for added comfort
- Three pockets are also featured, one on the chest and one at each hip

### 70 per package

Medium	NEGU6073M
Large	NEGU6073L
Extra Large	NEGU6073XL



## Loops and Spreaders

Available in a variety of formats to meet your personal needs.

SpeedStreaks™ 10µl Loops, disposable, flexible, light blue, 25/pack, 1000/case HS10F

L-Shaped Spreader, sterile, individually wrapped, 500/case 174CS01



# HARDY DIAGNOSTICS

*A Culture of Service™*



40 Years of  
Bringing You  
A Culture of Service



**100%**  
Employee Owned



Hardy Diagnostics  
donates 1% of net  
profits to charity.



FM 572526

Hardy Diagnostics has a Quality Management System that is certified to ISO 13485 and is a FDA licensed medical device manufacturer.

### Headquarters

1430 West McCoy Lane  
Santa Maria, CA 93455  
800.266.2222  
Sales@HardyDiagnostics.com  
HardyDiagnostics.com

### Distribution Centers

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Olympia, Washington  
Salt Lake City, Utah  
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Lake City, Florida  
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