



# Pharmaceutical Microbiology

 **HARDY**  
DIAGNOSTICS  
*A Culture of Service™*

# Pharmaceutical Microbiology

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# Our Advantage

**H**ardy Diagnostics manufactures over 2,700 prepared culture media products and provides a complete selection of over 13,000 microbiology supply items. Founded in 1980, Hardy Diagnostics has grown to service over 9,000 microbiology laboratories within the United States and throughout the world.

- **USP Compliant Quality Control**

For items designated USP, Hardy Diagnostics quality control testing is performed in accordance with the requirements set forth in *USP/NF, Microbiological Examination of Nonsterile Products: Microbial Enumeration Tests <61>*, *Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms <62>*, and *Sterility Tests <71>*. Rockville, MD: US Pharmacopeial Convention.

- **Quality Control Program**

All of the products manufactured by Hardy Diagnostics are tested to the highest standards for quality and performance. To assist our industrial customers with ISO and cGMP requirements, a "Certificate of Analysis" is available online.

- **ISO Certified**

The Quality management system of the Hardy Diagnostics' California and Ohio manufacturing facilities has been certified to ISO 13485, a quality standard specifically for medical device manufacturers.

- **Custom Product Manufacturing**

Hardy Diagnostics is willing and able to manufacture products specific to your needs. Special container and formula requests are welcome. Simply contact your area Sales Representative.

- **Two Manufacturing Plants**

Hardy Diagnostics is the only culture media company with bi-coastal manufacturing plants that provide our customers with the additional security of product availability.



# Environmental Monitoring

# LOK TIGHT™

## Contact Plates for Surface Sampling



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.



4. Friction Lid design keeps lid in  
place. Optional locking feature  
assures lids stay secured.

### NON-IRRADIATED

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

For the cultivation and enumeration of microorganisms.

10/pk..... P34

#### **Sabouraud Dextrose Agar**

For the cultivation and enumeration of fungi. 10/pk..... P36

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

For the cultivation and enumeration of fungi. 10/pk..... P93

### IRRADIATED and TRIPLE BAGGED

#### **D/E Neutralizing Agar, USP**

For the testing efficacy and neutralizing of antiseptics and disinfectants based on neutralizing the chemical and detecting organisms remaining after treatment. Irradiated, triple bagged, 10/pk.....

P580

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

For the cultivation and enumeration of microorganisms.

Irradiated, triple bagged, 10/pk..... P520

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

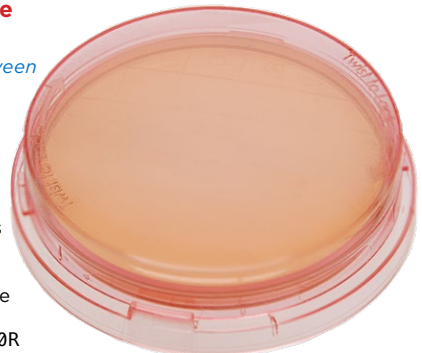
For the cultivation and enumeration of fungi. Irradiated,

triple bagged, 10/pk..... P595

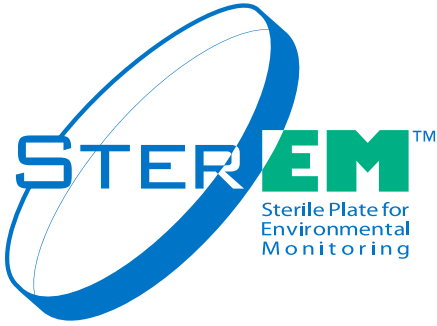
#### **Tryptic Soy Agar with Lecithin and Tween® 80, USP in Red-Tinted Plate**

*Easily distinguish between  
TSA and SabDex!*

For the cultivation and enumeration of microorganisms. Featuring a red-tinted plate for busy facilities testing with both TSA and a fungal specific media. Irradiated, triple bagged, 10/pk..... P520R



# Sterile Environmental Monitoring Plates



## Triple Bagged

- **Sterile by irradiation** - Validated for a Sterility Assurance Level (SAL) of  $10^{-5}$
- **Certificates of analysis** - Available at the Hardy Diagnostics website 24/7
- **ISO 13485** - Manufactured in a licensed cGMP facility with the quality management system certified to ISO 13485
- **Room temperature storage**

### **R2A Agar, Irradiated, Triple Bagged**

For the enumeration of heterotrophic bacteria in water, especially potable water.  
15x100mm plate, 10/pk.....W530

### **Sabouraud Dextrose Agar, Irradiated, Triple Bagged**

For the detection and enumeration of fungi.  
15x100mm plate, 10/pk.....W565

### **Sabouraud Dextrose Agar with Lecithin and Tween® 80, Irradiated, Triple Bagged**

For the detection and enumeration of fungi.  
15x100mm plate, 10/pk.....W595

### **Tryptic Soy Agar, Irradiated, Triple Bagged**

For the cultivation and enumeration of microorganisms.  
15x100mm plate, 10/pk.....W570

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

For the cultivation and enumeration of microorganisms.  
15x100mm plate, 10/pk.....W520



# Environmental Testing Swabs



## EnviroTrans™ Swab Kit (Pre-moistened)

**A ready-to-use swab and tube pre-filled with your choice of five 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. Each EnviroTrans™ tube contains broth or buffer (see listing). The entire unit is terminally sterilized. Excellent for detection or enumeration of microorganisms from environmental surfaces or equipment.

### 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.

2ml, 20/box ..... SRK20  
5ml, 20/box ..... SRK15

### 0.85% Saline

For the detection of microorganisms found on surfaces. Osmotically neutral transport solution. Contains no neutralizing agents or growth factors. Recommended for enumeration methods.

0.5ml, 20/box ..... SRK05  
2ml, 20/box ..... SRK30  
5ml, 20/box ..... SRK35

### Letheen Broth

For the detection of microorganisms found on surfaces. Neutralizes phenols, formalin, and ethanol. May be used with Compact Dry or 3M Petrifilm™. Contains some growth factors.

5ml, 20/box ..... SRK25

### Neutralizing Saline

For the detection of microorganisms found on surfaces. Neutralizes a broad spectrum of antiseptics and disinfectants such as quaternary ammonia, iodine, chlorine, phenolics, formalin, mercurials, glutaraldehyde, ethanol, and hexachlorophene. Detects microorganisms remaining after sanitation treatment. Contains no growth factors. Recommended for enumeration methods.

5ml, 20/box ..... SRK55



1. Collect sample



2. Safely transport to the lab



3. Cultivate specimen







**TRIO.BAS™**  
BIOLOGICAL AIR SAMPLER

Viable Microbial  
**Air Samplers**



**TRIO.BAS™ instruments represent the newest generation of microbial air monitoring**

See our website and online  
**TRIO.BAS™** catalog for information on all available models.



# MONO induction



Ideal for cleanroom use



## Each kit includes:

- Instrument
- Induction battery charger and cable
- Aspirating head
- Cover head
- ROBUSTUS carrying case
- Calibration certificate
- IQ, OQ, PQ fillable document

## Features:

- No plugs or external connections
- Delayed interval sampling and remote start capabilities
- Data transfer capability via Bluetooth  
(*Separate purchase required.*)
- **MONO certified to ATEX standards also available**

Cat. no.

MONO Kit, 100 liters/min., contact plate

BAS200K

MONO Kit, 100 liters/min., Petri plate

BAS201K

MONO Kit, 200 liters/min., contact plate

BAS205K

MONO Kit, 200 liters/min., Petri plate

BAS206K





# DUO induction

**Achieve faster sampling times and better statistical results with the DUO!**

**BEST SELLER**



Ideal for cleanroom use



## Each kit includes:

- Instrument
- Induction battery charger and cable
- Aspirating heads
- Cover heads
- ROBUSTUS carrying case
- Calibration certificate
- IQ, OQ, PQ fillable document

## Features:

- No plugs or external connections
- Two aspirating heads for sampling on separate plates to determine bacterial and yeast/mold counts
- Programmable for simultaneous or interval aspirating times
- Data transfer capability via Bluetooth. *(Separate purchase required.)*

**• Ask about DUO certified to ATEX standards**

Cat. no.

DUO Kit, 100 liters/min., contact plate

BAS220K

DUO Kit, 100 liters/min., Petri plate

BAS221K

DUO Kit, 200 liters/min., contact plate

BAS225K

DUO Kit, 200 liters/min., Petri plate

BAS226K



**TRIO.BAS™**  
BIOLOGICAL AIR SAMPLER

# RABS ISOLATOR and MULTIFLEX Systems

Specifically designed to meet Pharmaceutical and Biopharmaceutical Cleanroom Regulatory Requirements and Standards



*\*Data transfer requires additional purchase of BAS296 software*

## RABS ISOLATOR External Command Unit and One Satellite

with the ability to add up to two additional satellite kits

### Each kit includes:

- Instrument
- Satellite aspirating head
- Stainless steel head cover
- Five meter long satellite attachment cable
- Charging and Data transfer\* cable
- Robustus carrying case
- Calibration certificate
- IQ OQ PQ fillable guideline documents

Cat. no.

RABS ISOLATOR 1 Satellite Pack, 100 liters/min., contact plate	BAS268K
RABS ISOLATOR 1 Satellite Pack, 100 liters/min., Petri plate	BAS269K
RABS ISOLATOR 1 Satellite Pack, 200 liters/min., contact plate	BAS270K
RABS ISOLATOR 1 Satellite Pack, 200 liters/min., Petri plate	BAS271K

### Standard Satellite Kits with Cables

#### Each kit includes:

- Satellite air sampling chamber
- Stainless steel aspirating head
- Stainless steel head cover
- Five meter long satellite attachment cable
- LIGHT carrying case

Contact..... BAS260K

Petri..... BAS261K



### HEPA-Equipped Satellites

- Add one to three satellites
- Stainless steel HEPA satellite
- Stainless steel aspirating head
- Stainless steel head cover
- Five meter long satellite attachment cable
- One box of HEPA filters

Contact..... BAS262K

Petri..... BAS263K



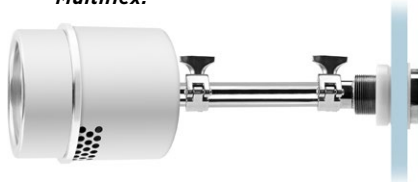
**Cannot be used concurrently with standard, or other, satellite configurations. Not for use with Multiflex.**

### Satellites with Tri-Clamps

- Satellite and Tri-Clamp
- Aspirating heads and covers sold separately (BAS330/331 and BAS465)

Contact..... BAS320K

Petri..... BAS321K



- Compliant according to EN/ISO 14698-1, GMP and GLP
- Built in ISO 9001 Premises
- Data Integrity per CFR 21 and GAMP5
- IQ OQ PQ Guidance Documents Included
- Fabricated in AISI 316 Stainless Steel
- Multiple satellites allow use of separate media at the same time to determine bacterial and fungal counts
- Bluetooth data transfer capability
- Monitor separate cleanrooms with a single external command unit and satellites attached to 5 meter long cables
- Satellite designs allow sampling inside RABS or Isolators
- Optional 20 meter long satellite cables available (BAS272)
- Sample up to 70,000 liters on a single battery charge



*\*Data transfer requires additional purchase of BAS296 software*

## MULTIFLEX 1

### Command Unit + Built-in Aspirating Head

with the ability to add up to two additional standard satellite kits (pg 6)

#### Each kit includes:

- Instrument
- Stainless steel head cover
- Charging and Data transfer\* cable
- Robust carrying case
- Calibration certificate
- IQ OQ PQ fillable guideline documents

Cat. no.

MULTIFLEX 1, 100 liters/min., contact plate **BAS483K**

MULTIFLEX 1, 100 liters/min., Petri plate **BAS484K**

MULTIFLEX 1, 200 liters/min., contact plate **BAS485K**

MULTIFLEX 1, 200 liters/min., Petri plate **BAS486K**

## MULTIFLEX 1+2

### Command Unit + Built-in Aspirating Head and Two Independent Satellites

#### Each kit includes:

- Instrument
- Three stainless steel aspirating heads with stainless steel head covers
- Two 5 meter long satellite attachment cables
- Charging and Data transfer\* cable
- Calibration certificate
- IQ OQ PQ fillable guideline documents

*\*Data transfer requires additional purchase of BAS296 software*



Cat. no.

MULTIFLEX 1+2, 100 liters/min., contact plate **BAS474K**

MULTIFLEX 1+2, 100 liters/min., Petri plate **BAS475K**

MULTIFLEX 1+2, 200 liters/min., contact plate **BAS476K**

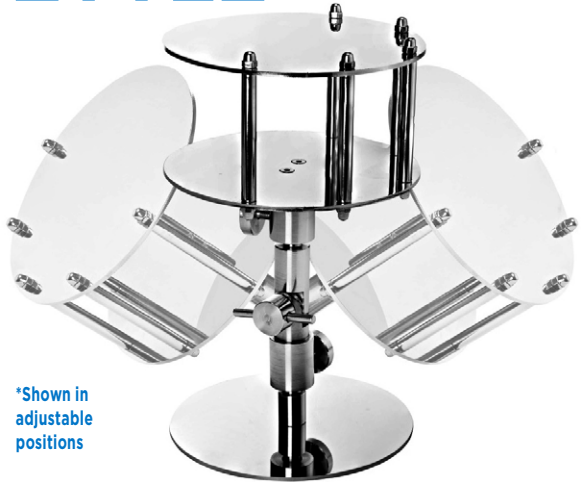
MULTIFLEX 1+2, 200 liters/min., Petri plate **BAS477K**



# TRIO.SETTLE

Ideal for settling plate exposure under unidirectional air flow

**Standardize your passive air monitoring protocols with TRIO.SETTLE. Fully autoclavable AISI 316 rated stainless steel support for Settling Plates.**



\*Shown in adjustable positions

The TRIO.SETTLE ideally standardizes the position of the culture plate reducing the risk of contamination during sampling.

Position culture media (settling plates) for best articulation to provide a quantitative analysis of airborne microorganisms deposited over a set period of exposure.

**TRIO.SETTLE features:**

- AISI316 stainless steel fabrication
- Upper surface disc to accommodate an open culture plate during sampling
- Lower surface disc to accommodate the lid of the culture plate
- Adjustable to obtain different inclinations to the agar surface related to the direction of unidirectional airflow, avoiding laminar flow turbulence.
- Floor base model includes floor base and a 1 meter tall stainless steel tri pod

Cat. no.

TRIO.SETTLE table plate stand

BAS367

TRIO.SETTLE floor plate stand

BAS368

## TRIO.BAS IN-REST Plate Holder

To facilitate operations and reduce contamination risks during sampling activities. Useful as a temporary support for culture media plates and/or lids, as well as TRIO.BAS instrument sampling heads. Each ..... BAS180



## Cleanroom Bag

Sterile bags ideal for safely containing and transporting Petri dishes, Contact plates, swabs, or other objects, outside of the cleanroom.

Each ..... BAS381



Hardy Diagnostics

# DuraRack®

**Plastic racks are brittle and cheap. Metal racks rust over time.  
DuraRack™ will withstand the test of time!**

The DuraRack™ is a durable, autoclavable, epoxy coated, heavy gauge steel wire rack that allows for easy loading and unloading of culture media plates. Sturdy welded design and advanced long-lasting protective coating provides a plate rack that will last.



DURA84

- DuraRack™ made for 100mm Petri plates and DuraRack™ CONTACT made for 65mm contact plates
- Advanced epoxy coated steel wire is chemical and corrosion resistant and steam autoclavable
- Six columns hold either 100mm or 65mm diameter size stacked plates
- Bottom and top access opening allows for easy and safe removal of dish stacks
- Use to organize, batch, transport, incubate, and refrigerate culture dishes

- Ample space for labeling on both ends
- Designed to maximize and preserve incubator and lab bench space
- Ideal for both high and low volume laboratories
- DURA84 is 7-3/8" W x 13" L x 9-1/2" H
- DURA60 is 7-3/8" W x 13" L x 7-1/4" H
- DURA60C is 6-1/2" W x 10-1/2" L x 6-3/4" H

DURA60



**NEW!**  
for Contact plates



DURA60C

**DuraRack®**  
CONTACT

**Contact Plate Rack!**

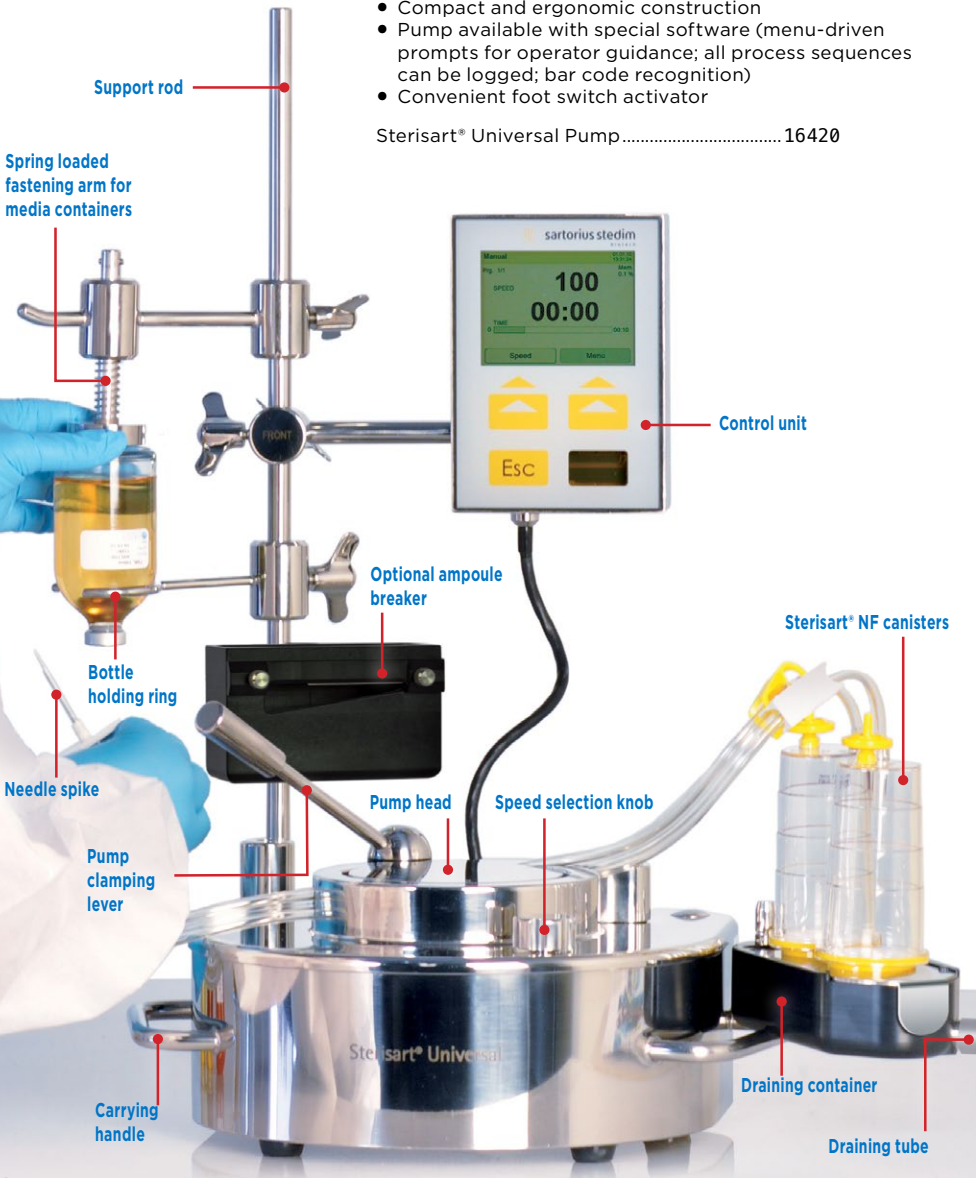
Description	Plates Held	UOM	Cat. no.
DURARACK™ holds 100mm Petri plates	60	Each	DURA60
DURARACK™ holds 100mm Petri plates	84	Each	DURA84
DURARACK™ CONTACT, holds 65mm contact plates	60	Each	DURA60C

# Sterility Testing System

## Sterisart® Universal Pump by Sartorius

- Gold standard for sterility testing of drugs
- Closed system - decrease the chance of technician contamination
- Rugged and maintenance-free
- Compact and ergonomic construction
- Pump available with special software (menu-driven prompts for operator guidance; all process sequences can be logged; bar code recognition)
- Convenient foot switch activator

Sterisart® Universal Pump..... 16420







# Sterisart Canisters

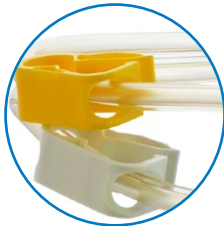
Disposable Sample Canisters and  
Adapters for use with Sterisart®  
Universal Pump

- For sterility testing in isolators and clean benches
- Individually sterile
- Double-packaged
- Gamma irradiated
- Stainless steel needles



Septum

Sterisart® Canisters  
available with or without  
a needle port septum for  
sub-culturing



Pre-installed color-  
coded tube clamps



VHP resistant  
packaging



Stainless steel  
septum needle



Transfer  
tubing

Vent filter

Easy-to-read graduated  
marks

Reliable membrane for high retention  
of microbes

**Call 800.266.2222 for  
a Price Quote!**

# Sterility Testing Culture Media per USP <71>

## Tryptic Soy Broth

100ml fill, 100ml bottle with needle-port septum, 20/pk..... U46



## Fluid A

Suitable as a general rinse buffer, and compatible with most samples. Excellent for dissolving or diluting samples, reconstituting commercial microorganisms, or as a transport medium for microorganisms. 100ml fill, 100ml bottle with needle-port septum, 20/pk..... U109



## Fluid Thioglycollate

100ml fill, 100ml bottle with needle-port septum, 20/pk..... U84



## Fluid D

Suitable for testing specimens that contain lecithin or oil, and compatible with most antibiotics. Excellent for rinsing sterile pathways of devices, and typically needed for rinse method testing of medical devices. 100ml fill, 100ml bottle with needle-port septum, 20/pk..... U110



*For all available rinsing fluid formats please see pg. 16*

## Fluid K

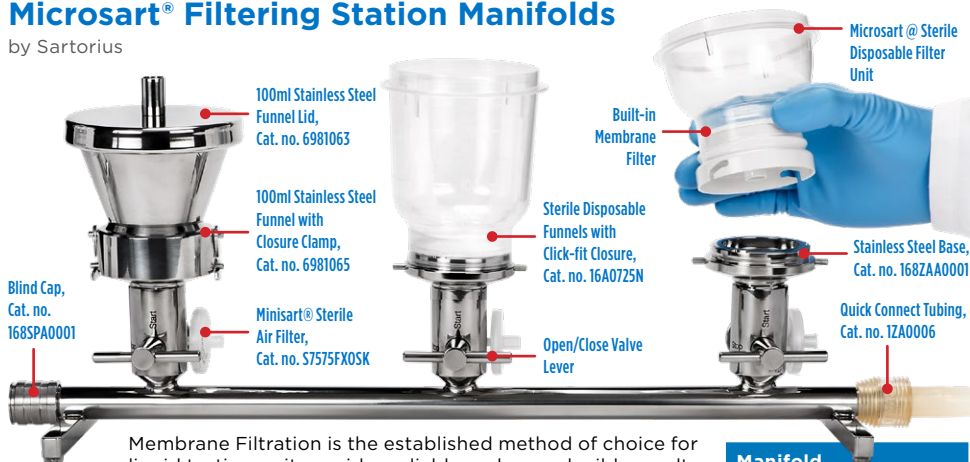
Suitable for testing specimens that contain petrolatum, oils, or oily solutions. Excellent for rinsing pathways of medical devices, and for samples that are difficult to filter or dissolve. 300ml fill, 500ml bottle with needle-port septum, 10/pk..... U348



# 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.

- Stable ergonomic design made of 100% stainless steel
- Autoclavable with no disassembly required
- Secondary venting in critical applications reduced risk of secondary contamination

Manifold Description	Cat. no.
1-Branch	168M1MS
2-Branch	168M2MS
3-Branch	168M3MS
6-Branch	168M6MS



## Microsart @ Filters

### 100ml Volume

Pore Size	Pack Type	Pk Sz	Cat. no.
0.2	Tray	60	16D011007BL
0.45µm High-Flow	Tray	60	16D01110H6BL
0.2	Stacked in bag	24	16D0111007TG
0.45µm High-Flow	Stacked in bag	24	16D01110H6TG
0.2	Individually Pkd	27	16D0111007ACG
0.45µm High-Flow	Individually Pkd	27	16D01110H6ACG

### 250ml Volume

Pore Size	Pack Type	Pk Sz	Cat. no.
0.2	Tray	16	16D012507TF
0.45µm High-Flow	Tray	16	16D0125H6TF
0.2	Stacked in bag	48	16D012507BK
0.45µm High-Flow	Stacked in bag	48	16D0125H6BK
0.2	Individually Pkd	18	16D012507ACF
0.45µm High-Flow	Individually Pkd	18	16D0125H6ACF

# Membrane Filters



## Cellulose Nitrate Gridded Membrane Filter

For funnels without built-in filters

- Four color/grid combinations for specific test applications
- 0.45µm ISO 7704 membrane filter
- Special pore structure for higher flow rates and throughputs
- Grid divided into 130 3.1 X 3.1 mm squares
- Individually wrapped and sterilized
- QA assurance certificate included

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

## Microsart® e.motion Membrane Filters

- For use with Microsart® e.motion, motion activated filter dispenser
- Individually wrapped on pleated rolls, sterile packed, 47mm
- Special pleating and shape of sealing band around membrane filters ensures perfectly flat and uniform dispensing of individual filters

Filter Color / Grid	Pore Size	Pack Size	Cat. no.
White/black	0.45µm	300	11406Z47SCM
White/black	0.45µm High-Flow	300	114H6Z47SCM



# Vacuum Pumps

## 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.

### Microsart® e.jet Vacuum Pump

Each ..... 166MP4

### 1 Meter Silicone Vacuum Hose with Quick Connection

Each ..... 1ZAS0016

## Microsart® maxi.vac Pump

For 3 to 6 place manifolds.

Each ..... 1669416022



*See our website for all Sartorius products*

# Plate and Tube Media

## Blood Agar Plate, 5% Sheep Blood in Tryptic Soy Agar

General growth medium. (This product is for laboratory use only; not for human diagnostic use.)

15x100mm plate, 19ml fill, 10/pk.....A10

## BCSA, USP

For the selective isolation and differentiation of *Burkholderia (Pseudomonas) cepacia* from sputum samples from cystic fibrosis patients and other clinical specimens.

15x100mm plate, 10/pk.....G09

## Cetrimide Selective Agar, USP

For the selective isolation of *Pseudomonas aeruginosa*.

15x100mm plate, 18ml fill, 10/pk.....G18

## Columbia Agar, USP

For the isolation and cultivation of non-fastidious and fastidious microorganisms.

15x100mm plate, 18ml fill, 10/pk.....G250

## Deionized Water

For the preparation of dilutions and suspensions. 16x125mm glass tube, 9ml fill,

20/pk.....K259

## Dichloran Rose Bengal

### Chloramphenicol (DRBC) Agar

For use in the cultivation of yeast and mold.

15x100mm plate, 26ml fill, 10/pk.....W89

## EE Broth Mossel, USP

For the selective enrichment of *Enterobacteriaceae*.

16x125mm tube, 9ml fill, 20/pk.....K191

## Fluid Thioglycollate

For the cultivation of microorganisms and USP sterility procedures.

16x125mm tube, needle-port hungate cap, 10ml fill, 20/pk.....K282

## Fluid Thioglycollate Broth with Indicator, USP

For the cultivation of microorganisms and USP sterility procedures. Contains resazurin oxygen indicator.

16x125mm tube, 10ml fill, 20/pk.....K21

20x125mm tube, 10ml fill, 20/pk.....K121

## Fluid Thioglycollate with Hemin and Vitamin K

For the cultivation of aerobic, microaerophilic, and anaerobic microorganisms.

16x125mm tube, 10ml fill, 20/pk.....K73

## HardyCHROM™ Bcc

A chromogenic agar for selective isolation and differentiation of *Burkholderia cepacia* and 28 other Bcc strains, including *B. cenocepacia* and *B. multivorans*.

15x100mm plate, 10/pk.....G335

## MacConkey Agar, USP

For the isolation and differentiation of gram-negative bacteria. (This product is for laboratory use only; not for human diagnostic use.)

15x100mm plate, 10/pk.....G35

15x100mm plate, 100/bx.....G35BX

## MacConkey Broth

For the isolation and differentiation of gram-negative bacteria.

16x125mm tube, 10ml fill, 20/pk.....K196

## MacConkey Broth with Durham Tube

For the detection of gram-negative, lactose fermenting bacilli.

16x100mm tube, 5ml fill, 20/pk.....K194

## mHPC Agar (Heterotrophic Plate Count)

Total bacteria counts in water and environmental samples.

20x125mm tube, 18ml deep, 20/pk.....Q39



MacConkey Agar, USP  
Cat. no. G35



### Malt Extract Agar

For the cultivation and enumeration of yeasts and molds.

15x100mm plate, 26ml deep, 10/pk.....W28

### Mannitol Salt Agar (MSA), USP

For the selective isolation and differentiation of *Staphylococcus* spp. (This product is for laboratory use only; not for human diagnostic use.)

15x100mm plate, 10/pk.....G40

### Nutrient Agar

For the isolation and cultivation of nonfastidious microorganisms.

15x100mm plate, deep fill, 10/pk.....W51

20x150mm tube, 20ml deep, 100/bx.....Q84

### Potato Dextrose Agar, USP

For the cultivation of yeast and mold.

15x100mm plate, 26ml deep fill, 10/pk.....W60

15x150mm plate, 68ml fill, 10/pk.....H51

20x125mm pour tube, 18ml deep, 20/pk.....Q29

### Pseudomonas Agar F

For the identification of *Pseudomonas aeruginosa* and the detection of fluorescein.

15x100mm plate, 18ml fill, 10/pk.....G198

### Pseudomonas Agar P

For the identification of *Pseudomonas aeruginosa* and the detection of pyocyanin.

15x100mm plate, 18ml fill, 10/pk.....G201

### Rappaport-Vassiliadis Broth, USP

For the selective enrichment of *Salmonella* spp.

16x125mm tube, 10ml fill, 20/pk.....K246

### Reinforced Clostridial Medium with Na Lactate

For the cultivation and enumeration of clostridia, and other anaerobic and facultative bacteria.

16x125mm tube, 10ml fill, 20 /pk.....K351

### Sabouraud Dextrose (Sabdex) Agar with Chloramphenicol

for the selective isolation of fungi and yeasts from clinical and nonclinical specimens.

500ml PC bottle, 500ml fill, 10/pk .....U445

### Sabouraud Dextrose (Sabdex) Agar

For the cultivation of yeast and mold.

15x100mm plate, USP, 26ml deep fill, 10/pk ....W70

15x150mm plate, USP, 70ml fill, 10/pk.....H39

25x100mm plate, 60ml deep fill, 5/pk.....W250

20x150mm tube, USP, 20ml deep fill, 100/bx.....Q83

### Sabouraud Dextrose (Sabdex) Agar, Blue

For the cultivation of fungi. Blue green color enables easy differentiation from Tryptic Soy Agar or other light amber colored media.

15x100mm plate, 26ml fill, 10/pk.....W82

### Sabouraud Dextrose (Sabdex) Agar with Chloramphenicol

For the cultivation of fungi.

16x125mm tube, 18ml fill, 20/pk.....Q34

### Sabouraud Dextrose (Sabdex) Broth

For the cultivation of fungi.

16x125mm tube, 10ml fill, 10/pk .....K54

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

For the cultivation of yeast and mold.

15x100mm plate, 26ml fill, 10/pk.....W71

### Tryptic Soy Agar (TSA), USP

For the cultivation of microorganisms. Also known as Soybean-Casein Digest Agar.

15x100mm plate, 10/pk.....G60

15x100mm plate, 100/bx.....G60BX

15x100mm plate, 26ml fill, 10/pk.....W64

15x150mm plate, 69ml fill, 10/pk.....H19

20x125mm pour tube, 18ml deep, 20/pk.....Q58

20x150mm tube, 1.5x, 20ml deep, 100/bx.....Q80

### Tryptic Soy Agar with Lecithin and Tween® 80

For the cultivation and enumeration of microorganisms.

20x125mm tube, deep, 18ml fill, 20/pk.....Q13

15x100mm plate, 27ml fill, USP, 10/pk.....G41



See page 3 for  
Irradiated Plates.



### **Tryptic Soy Agar / Cetrimide Agar/ Mannitol Salt Agar, Triplate**

- TSA, for the cultivation of microorganisms.
  - Cetrimide, for the selective isolation of *Pseudomonas aeruginosa*.
  - MSA, for the selective isolation and differentiation of *Staphylococcus* spp.
- 15x100mm triplate, 21ml fill per section,  
10/pk.....J330

### **Tryptic Soy Broth (TSB), USP**

- For sterility testing and cultivation of microorganisms. Also known as Soybean-Casein Digest Broth.
- 15x103mm tube, 5ml fill, 20/pk .....K89
- 16x125mm tube, hungate cap, 10ml fill,  
100/bx .....K182
- 16x125mm tube, 10ml fill, 100/bx .....K82
- 20x125mm tube, 15ml fill, 20/pk.....K83
- 20x150mm tube, 20ml fill, 100/bx .....K380

### **Tryptic Soy Broth with 15% Glycerol**

- For the preservation of organisms by freezing. A 15% concentration of glycerol is added to the broths to maintain viability of microorganisms and to protect cell membranes.
- 16x100mm plate, 5ml fill, 20/pk.....K242

### **Violet Red Bile with Glucose Agar**

- For the detection of coliforms.
- 15x100mm biplate, 10/pk.....J132
- 15x100mm plate, USP, 18ml fill, 10/pk .....G178

### **Xylose Lysine Deoxycholate (XLD) Agar**

- For the selective isolation of pathogenic, gram-negative enteric bacteria.
- 15x100mm plate, USP, 10/pk.....G65

# **Mycoplasma Media**

### **A8 Agar**

- For the selective isolation of *Mycoplasma hominis* and *Ureaplasma urealyticum*.
- 15x60mm plate, 10/pk.....G02

### **Frey Medium Agar**

- Recommended for use in the cultivation and isolation of *Mycoplasma* species.
- 15x60mm plate, 11ml fill, 10/pk.....G381

### **Hayflick Medium Agar**

- Recommended for use in the cultivation and isolation of *Mycoplasma* species.
- 15x60mm plate, 11ml fill, 10/pk.....G385

### **Mycoplasma Agar**

- For the cultivation of *Mycoplasma* and the detection of *Mycoplasma* contamination in biologics and biological processes.
- 15x60mm plate, 10/pk.....G362

### **SP4 Broth with Arginine**

- For the selective cultivation and differentiation of *Mycoplasma* species based on the ability to utilize arginine.
- 13x100mm tube, 2ml fill, 20/pk.....R85

### **SP4 Agar with Glucose**

- For the selective cultivation and differentiation of the *mycoplasmas*; including *Mycoplasma hominis*, *Mycoplasma pneumoniae*, and *Ureaplasma urealyticum*.
- 15x60mm plate, 10/pk.....G21



# Bottle and Jar Media

## Antibiotic Media, USP

For use in the determination of antimicrobial activity per USP <81>.

#35, 500ml polycarbonate bottle, 400ml fill, 10/pk.....	U535
#34, 500ml polycarbonate bottle, 400ml fill, 10/pk.....	U534
#9, 500ml polycarbonate bottle, 400ml fill, 10/pk.....	U509
#10, 473ml boston round glass bottle, 12/pk.....	U510

## Buffer No. 3, USP

For use in antibiotic potency assays.

500ml polycarbonate bottle, 500ml fill, 10/pk.....	U303
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## Buffer, USP <81>

For use in antibiotic potency assays.

#4, 500ml polycarbonate bottle, 500ml fill, 10/pk.....	U307
#16, 500ml polycarbonate bottle, 10/pk.....	U558

## Buffered Sodium Chloride Peptone, USP

For use as a rinse fluid for membrane filtration methods.

500ml polycarbonate bottle, 500ml fill, 10/pk.....	U301
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## Buffered Sodium Chloride Peptone Solution (pH 7.0), USP

For the preparation of isotonic suspensions and dilutions of microorganisms.

180ml polycarbonate wide mouth jar, 90ml fill, 12/pk.....	U255
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## D/E Neutralizing Broth

To neutralize antiseptics and disinfectants as well as to detect organisms remaining after treatment.

60ml polypropylene bottle, 100ml fill, 25/pk.....	U332
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## EE Broth Mossel, USP

For the selective enrichment of *Enterobacteriaceae*.

180ml polycarbonate wide mouth jar, 90ml fill, 12/pk.....	U291
150ml wide mouth polycarbonate jar, 100ml, 12/pk.....	U391

## Fluid A, USP

For use as a diluting and rinsing fluid.

250ml boston round glass bottle, 200ml fill, 12/pk.....	U436
180ml polycarbonate wide mouth jar, 90ml fill, 12/pk.....	U17
1L polycarbonate bottle, 1L fill, 10/pk.....	U208

## Fluid D, USP

A rinsing and diluting fluid.

120ml boston round glass bottle, 100ml fill, 20/pk.....	U437
180ml polycarbonate wide mouth jar, 100ml fill, 12/pk.....	U135
500ml polycarbonate bottle, 500ml fill, 10/pk.....	U215
1L polycarbonate bottle, 1L fill, 10/pk.....	U115

## Fluid K, USP

A rinsing and diluting fluid.

1L polycarbonate bottle, 1L fill, 10/pk.....	U206
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## Fluid Thioglycollate Broth with Indicator

For the cultivation of microorganisms and sterility procedures. Contains resazurin oxygen indicator.

120ml boston round glass bottle, USP, 20/pk.....	U121
250ml boston round glass bottle, 200ml fill, 12/pk.....	U434
200ml wide mouth glass jar, USP, 100ml fill, 12/pk.....	U41

## MacConkey Broth, USP

For the detection of gram-negative, lactose fermenting bacilli.

180ml polycarbonate wide mouth jar, 100ml fill, 12/pk.....	U125
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## Phosphate Buffer, pH 7.2

For sample preparation.

500ml polycarbonate bottle, 500ml fill, 10/pk.....	U438
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## Phosphate Buffer with Magnesium Chloride

For the preparation of dilutions.

1L PET bottle, 1L fill, 10/pk.....	U217
500ml polycarbonate bottle, 500ml fill, 10/pk.....	U193

### Potato Dextrose Agar, USP

For the cultivation of yeast and mold.

- 250ml boston round glass bottle, 200ml fill, 12/pk .....U294
- 500ml polycarbonate bottle, USP, 500ml fill, 10/pk.....U376

### Sabouraud Dextrose Agar

For the cultivation of yeast and mold.

- 500ml polycarbonate bottle, USP, 200ml fill, 10/pk.....U270
- 473ml boston round glass bottle, USP, 200ml fill,12/pk .....U227
- 473ml boston round glass bottle, 400ml fill, 12/pk .....U352
- 500ml polycarbonate bottle, USP, 500ml fill, 10/pk.....U353

### Sabouraud Dextrose Agar with Lecithin and Tween® 80

For the cultivation of fungi and the neutralization of disinfectants.

- 500ml polycarbonate bottle, 400ml fill, 10/pk.....U175
- 473ml boston round glass bottle, 400ml fill, 12/pk .....U431

### Saline 0.9%

For use as a sterility testing filter rinse.

- 500ml polycarbonate bottle, 10/pk.....U264

### Sterile Water

For general laboratory use and for the preparation of dilutions and suspensions.

- 1L polycarbonate bottle, 10/pk.....U284
- 500ml media bottle, 500ml fill, 10/pk.....U324
- 200ml glass bottle, 200ml fill, 10/pk.....U232
- 125ml polycarbonate bottle, 50ml fill, 16/pk.....U336

### Thioglycollate with H and K (Hemin and Vitamin K), USP

For the cultivation of anaerobic bacteria.

- 120ml boston round glass bottle, 100ml fill, 20/pk.....U43

### Tryptone-Azolectin-Tween® (TAT) Broth

For use in the cultivation of microorganisms from highly viscous or gelatinous materials.

- 120ml boston round glass bottle, 90ml fill, 20/pk.....U87
- 180ml polycarbonate wide mouth jar, 9 9ml fill, 12/pk.....U88
- 1L polycarbonate bottle, 490ml fill, 10/pk.....U318
- 1L polycarbonate bottle, 1L fill, 10/pk.....U319

### Tryptic Soy Agar, 1.5X Strength

For use as a general growth medium for the isolation and cultivation of microorganisms.

- 250ml boston round glass bottle, 150ml fill, 20/pk.....U112



### **Tryptic Soy Agar, USP**

For use as a general growth medium for the isolation and cultivation of microorganisms.

250ml boston round glass bottle, 150ml fill, 20/pk.....	U49
250ml boston round glass bottle, 200ml fill, 12/pk.....	U260
473ml boston round glass bottle, 400ml fill, 12/pk.....	U360
500ml heavy duty glass bottle, 500ml fill, each.....	U158
500ml polycarbonate bottle, 500ml fill, 10/pk.....	U361
1L polycarbonate bottle, 700ml fill, 10/pk.....	U60
1L polycarbonate bottle, 1L fill, 10/pk.....	U373

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

For the cultivation and enumeration of microorganisms.

500ml polycarbonate bottle, 400ml fill, 10/pk.....	U174
473ml boston round glass bottle, 400ml fill, 12/pk.....	U412

### **Tryptic Soy Broth, USP**

For sterility testing and the cultivation of microorganisms.

60ml glass bottle, 40ml fill, minimum order:42 packs 24/pk.....	U462
60ml boston round glass bottle, 50ml fill, 24/pk.....	U44
120ml boston round glass bottle, 100ml fill, 20/pk.....	U42
180ml polycarbonate wide mouth jar, 25ml fill, 12/pk.....	U223
180ml polycarbonate wide mouth jar, 100ml fill, 12/pk.....	U71
180ml polycarbonate wide mouth jar, USP, 180ml fill, 12/pk.....	U316
180ml polycarbonate wide mouth jar, 90ml fill, 12/pk.....	U133
250ml boston round glass bottle, 160ml fill, 12/pk.....	U171
250ml boston round glass bottle, 200ml fill, 12/pk.....	U435
473ml boston round glass bottle, 400ml fill, 12/pk.....	U242
1L polycarbonate bottle, 1L fill, 10/pk.....	U67

### **Tryptic Soy Broth with Lecithin and Tween® 20**

For the cultivation of microorganisms.

180ml glass wide mouth jar, 90ml fill, USP, 12/pk.....	U241
180ml polycarbonate wide mouth jar, 100ml fill, 12/pk.....	U261

### **Tryptic Soy Broth, Double Strength, USP**

For the cultivation of microorganisms.

120ml boston round glass bottle, 25ml fill, 12/pk.....	U225
180ml polycarbonate wide mouth jar, 50ml fill, 12/pk.....	U205
250ml boston round glass bottle, 100ml fill, 12/pk.....	U70

### **Tryptic Soy Broth with Lecithin and Tween® 80**

For the cultivation of microorganisms.

500ml polypropylene bottle, 500ml fill, 10/pk.....	U229
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# Bottle Media with Septum

## Fluid A, USP

A rinsing and diluting fluid.

100ml glass bottle, 100ml fill, 20/pk.....	U109
200ml glass bottle, 200ml fill, 10/pk.....	U209
500ml polycarbonate bottle, 300ml fill, 10/pk.....	U349
600ml glass bottle, 300ml fill, 10/pk.....	U342
600ml glass bottle, 600ml fill, 10/pk.....	U249

## Fluid D, USP

A rinsing and diluting fluid.

100ml glass bottle, 100ml fill, 20/pk.....	U110
500ml square polycarbonate bottle, 300ml fill, 10/pk.....	U210
600ml glass bottle, 300ml fill, 10/pk.....	U346

## Fluid K, USP

A rinsing and diluting fluid.

600ml glass bottle, 300ml fill, 10/pk.....	U348
1L polypropylene bottle, 1L fill, 10/pk.....	U206

## Fluid Thioglycollate Broth with Indicator, USP

For the cultivation of microorganisms and USP sterility procedures.

16x125mm glass tube, 10ml fill, 20/pk.....	K282
20ml glass bottle, 15ml fill, 50/pk.....	U66
20ml glass bottle, 20ml fill 50/pk.....	U68
100ml glass bottle, 100ml fill, 20/pk.....	U84
200ml glass bottle, 150ml fill, 10/pk.....	U207
600ml glass bottle, 300ml fill, 10/pk.....	U427
600ml glass bottle, 500ml fill, 10/pk.....	U273

## Reinforced Clostridial Medium, USP

For the cultivation of *Clostridium* spp. and other anaerobic and facultative bacteria.

125ml polycarbonate bottle, 100ml fill, 16/pk.....	U172
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## Sabouraud Dextrose Broth, USP

For the cultivation of fungi.

125ml polycarbonate bottle, 100ml fill, 16/pk.....	U73
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## Saline, 0.85% with 0.05% Tween® 80

For preparing dilutions and suspensions of microorganisms.

100ml glass bottle, 100ml fill, 20/pk.....	U330
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## Tryptic Soy Broth, USP

For the cultivation of microorganisms.

16x125mm glass tube, 10ml fill, 20/pk.....	K82
20ml glass bottle, 10ml fill, 50/pk.....	U8210
20ml glass bottle, 15ml fill, 50/pk.....	U82
20ml glass bottle, 20ml fill, 50/pk.....	U38
100ml glass bottle, 50ml fill, 20/pk.....	U267
100ml glass bottle, 100ml fill, 20/pk.....	U46
125ml polycarbonate bottle, 100ml fill, 16/pk.....	U141
600ml glass bottle, 300ml fill, 10/pk.....	U421
600ml glass bottle, 500ml fill, 10/pk.....	U274

## Tryptic Soy Broth with 10% Glycerol

For the preservation of microorganisms by freezing.

100ml glass bottle, 100ml fill, 20/pk.....	U127
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## Tryptic Soy Broth with Lecithin and Tween® 20

For the cultivation of microorganisms.

100ml glass bottle, 100ml fill, 20/pk.....	U53
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## Tryptic Soy Broth with Lecithin and Tween® 80

For the cultivation of microorganisms.

20ml glass bottle, 10ml fill, 50/pk.....	U423
200ml glass bottle, 150ml fill, 10/pk.....	U424
600ml glass bottle, 300ml fill, 10/pk.....	U425

See our online catalog for all available formats.





# READYRACK™

A convenient way to bring media into a controlled area.

80 tube ReadyRack™

Convenient hand-holds



**A** Remove ReadyRack™ from box outside of cleanroom.



**B** Take into cleanroom, then remove plastic bag.



**C** Spray down entire ReadyRack™ with isopropyl alcohol.

## Packaged in a controlled environment to reduce particulates

Other tube formats and fill volumes are available upon request.

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### Tryptic Soy Broth (TSB), USP

16x125mm tube, 10ml fill, 80/pk.....K82BX

### Fluid Thioglycollate Medium (FTM), USP

16x125mm tube, 10ml fill, 80/pk.....K212BX

### ReadyRack™ Empty Tube Rack

Holds 80, 16x125mm or 16x100mm tubes

25 racks per case .....RR25





Needle Port

Spike Port



## For aseptic process simulation and media fill challenge

- Two ports: needle port and spike port
- Terminally autoclaved for high sterility assurance
- Quality tested to USP <71> standards for growth promotion, pH and sterility
- Manufactured in an ISO 13485 Facility
- Hang notch on the top of the Media Bag™ allows the technician to hang the bag

## Tryptic Soy Broth

700ml fill, 5/pk.....HVB5



# CRITERION™

DEHYDRATED CULTURE MEDIA

- Wide mouth opening reduces dust formation by allowing the use of a scoop
- Convenient hand grip 'no slip' finger holds
- Stackable containers for efficient storage
- Increased solubility dissolves quickly
- Unparalleled performance tested for optimal growth



## Test for Bile-Tolerant Gram Negative Bacteria

### EE Broth, Mossel

For the selective enrichment and detection of *Enterobacteriaceae*.

Mylar® zip-bag, makes 2L, each.....	C8710
500gm wide-mouth bottle, each.....	C8711
2kg bucket, each.....	C8712
10kg bucket, each.....	C8713

## Test for *Pseudomonas aeruginosa* Cetrimide Selective Agar

For use in the isolation and detection of *Pseudomonas aeruginosa*.

Mylar® zip-bag, makes 2L, each.....	C5370
500gm wide-mouth bottle, each.....	C5371
2kg bucket, each.....	C5372
10kg bucket, each.....	C5373

## Test for *Escherichia coli* MacConkey Broth

For cultivating gram-negative, lactose-fermenting bacilli as a presumptive test for coliforms.

Mylar® zip-bag, makes 2L, each.....	C6140
500gm wide-mouth bottle, each.....	C6141
2kg bucket, each.....	C6142
10kg bucket, each.....	C6143

## MacConkey Agar

For use as a selective and differential medium for the isolation of gram-negative bacilli (including coliform organisms and enteric pathogens), on the basis of lactose fermentation.

Mylar® zip-bag, makes 2L, each.....	C6130
500gm wide-mouth bottle, each.....	C6131
2kg bucket, each.....	C6132
10kg bucket, each.....	C6133

## Test for *Salmonella*

### Rappaport Vassiliadis *Salmonella* Enrichment Broth

For the detection and isolation of motile *Salmonella* spp.

Mylar® zip-bag, makes 2L, each.....	C8780
500gm wide-mouth bottle, each.....	C8781
2kg bucket, each.....	C8782
10kg bucket, each.....	C8783

### Xylose-Lysine-Deoxycholate Agar (XLD)

For use as a selective and differential medium for the isolation of gram-negative enteric pathogens such as *Salmonella* and *Shigella*.

Mylar® zip-bag, makes 2L, each.....	C7320
500gm wide-mouth bottle, each.....	C7321
2kg bucket, each.....	C7322
10kg bucket, each.....	C7323

## Test for *Staphylococcus aureus*

### Mannitol Salt Agar (MSA)

For use as a selective and differential medium for the isolation of pathogenic staphylococci.

Mylar® zip-bag, makes 2L, each.....	C6230
500gm wide-mouth bottle, each.....	C6231
2kg bucket, each.....	C6232
10kg bucket, each.....	C6233

## Test for Clostridia

### Reinforced Clostridial Medium

For the cultivation and enumeration of *Clostridium* spp. and other anaerobic and facultative bacteria.

Mylar® zip-bag, makes 2L, each.....	C8720
500gm wide-mouth bottle, each.....	C8721
2kg bucket, each.....	C8722
10kg bucket, each.....	C8723

### Columbia Agar

For cultivating fastidious and non-fastidious microorganisms with or without the addition of blood.

Mylar® zip-bag, makes 2L, each.....	C5450
500gm wide-mouth bottle, each.....	C5451
2kg bucket, each.....	C5452
10kg bucket, each.....	C5453

## Test for *Candida albicans*

### Sabouraud Dextrose (SabDex) Broth

For the cultivation and maintenance of nonpathogenic and pathogenic fungi.

Mylar® zip-bag, makes 2L, each.....	C7560
500gm wide-mouth bottle, each.....	C7561
2kg bucket, each.....	C7562
10kg bucket, each.....	C7563

### Potato Dextrose Agar

For the cultivation and identification of fungi.

Mylar® zip-bag, makes 2L, each.....	C6620
500gm wide-mouth bottle, each.....	C6621
2kg bucket, each.....	C6622
10kg bucket, each.....	C6623

## Microbial Enumeration Tests

### Sabouraud Dextrose (SabDex) Agar

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

Mylar® zip-bag, makes 2L, each.....	C6810
500gm wide-mouth bottle, each.....	C6811
2kg bucket, each.....	C6812
10kg bucket, each.....	C6813

### Tryptic Soy Agar (TSA)

For use as a general growth medium for the isolation and cultivation of microorganisms.

Mylar® zip-bag, makes 2L, each.....	C7120
500gm wide-mouth bottle, each.....	C7121
2kg bucket, each.....	C7122
10kg bucket, each.....	C7123

### Tryptic Soy Broth (TSB)

For use as a general growth medium for the isolation and cultivation of microorganisms.

Mylar® zip-bag, makes 2L, each.....	C7140
500gm wide-mouth bottle, each.....	C7141
2kg bucket, each.....	C7142
10kg bucket, each.....	C7143

## Buffers and Solutions

### Phosphate Buffer, pH 7.2

Used as a buffering agent in the preparation of culture media.

500gm wide-mouth bottle, each.....	C8331
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### Fluid Thioglycollate Media

For the cultivation of aerobic, microaerophilic, and anaerobic microorganisms.

Mylar® zip-bag, makes 2L, each.....	C7500
500gm wide-mouth bottle, each.....	C7501
2kg bucket, each.....	C7502
10kg bucket, each.....	C7503



# QC Microorganisms



**Accuracy and traceability have never been easier or more affordable.**

EZ-Accu Shot™ Select includes five compendial microorganism strains for Growth Promotion Testing in one convenient package.

EZ-Accu Shot™ Select lyophilized microorganism preparations are designed to deliver less than 100 CFU per 0.1ml of hydrated suspension as recommended by the USP/JP/Ph. Eur. With little to no preparation time required and up to eight hours of stability, EZ-Accu Shot™ Select adds efficiency and flexibility to QC laboratories. Each 1.2ml vial of hydrated suspension offers 10 inocula.

## EZ-Accu Shot™ Select kit includes:

- 5 compendial microorganism strains:
    - Escherichia coli* derived from ATCC® 8739™ \*
    - Aspergillus brasiliensis* derived from ATCC® 16404™ \*
    - Bacillus subtilis* ssp. *spizizenii* derived from ATCC® 6633™ \*
    - Candida albicans* derived from ATCC® 10231™ \*
    - Pseudomonas aeruginosa* derived from ATCC® 9027™ \*
    - Staphylococcus aureus* derived from ATCC® 6538™ \*
  - 1 vial of each microorganism (1 lyophilized pellet per vial)
  - 6 vials of hydrating fluid (1.2ml in each vial)
  - 6 peel-off labels, one for each strain
- Each/kit.....8172



## Buy EZ-Accu Shot™ Organisms Individually

<i>Aspergillus brasiliensis</i> derived from ATCC® 16404™ * .....	0392A
<i>Bacillus spizizenii</i> derived from ATCC® 6633™ * .....	0486A
<i>Burkholderia cenocepacia</i> derived from ATCC® BAA-245™ * .....	01269A
<i>Burkholderia cepacia</i> derived from ATCC® 25416™ * .....	0488A
<i>Candida albicans</i> derived from ATCC® 10231™ * .....	0443A
<i>Clostridium sporogenes</i> derived from ATCC® 11437™ * .....	0487A
ATCC® 19404™ * .....	0317A

<i>Escherichia coli</i> derived from ATCC® 8739™ * .....	0483A
<i>Pseudomonas aeruginosa</i> derived from ATCC® 9027™ * .....	0484A
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Typhimurium derived from ATCC® 13311™ * ..	0421A
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Typhimurium derived from ATCC® 14028™ * .....	0363A
<i>Staphylococcus aureus</i> derived from ATCC® 6538™ * .....	0485A

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## Multiple Application Enumerated Challenges

Epower™ microorganisms can be used to perform many essential quality control functions including microbial detection and enumeration, equipment calibration, method validation, bioburden determination, disinfectant challenge testing and antibacterial effectiveness and lethality testing. Available in concentrations ranging from 10<sup>2</sup> to 10<sup>8</sup> CFU per pellet, Epower™ lyophilized microorganism preparations are extremely versatile. Epower™ pellets can be used individually or several Epower™ pellets can

be combined for a mixed microorganism population challenge. They can also be easily manipulated to deliver a wide variety of concentrations. For added convenience, a peel-off Certificate of Assay is included for quality control documentation. Epower™ is packaged in a resealable vial containing 10 pellets of a single quantitative microorganism strain.



## Features and Benefits:

- Quantitative
- Refrigerated storage
- Peel-off Certificate of Assay
- Online Certificate of Analysis
- Traceable to reference culture
- Product warranty
- Saves time and reduces labor by delivering a specific number of colony forming units (CFU)
- Easily manipulated to deliver desired CFU levels
- Easy storage & no dry ice required, reduces shipping costs
- Cost effective & economical
- Complete and convenient documentation
- Documentation of phenotypic, macroscopic and microscopic test results
- Assured quality, meets USP guidelines
- Increased customer confidence

## Epower™ products available

<i>Aspergillus brasiliensis</i> derived from ATCC® 16404™*,	
1.0-9.9E+03 CFU per pellet.....	0392E3
<i>Aspergillus brasiliensis</i> derived from ATCC® 16404™*,	
1.0-9.9E+06 CFU per pellet.....	0392E6
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i> derived from	
ATCC® 6633™*, 1.0-9.9E+03 CFU per pellet.....	0486E3
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i> derived from	
ATCC® 6633™*, 1.0-9.9E+04 CFU per pellet.....	0486E4
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i> derived from	
ATCC® 6633™*, 1.0-9.9E+06 CFU per pellet.....	0486E6
<i>Burkholderia multivorans</i> derived from ATCC® BAA-247™*,	
1.0-9.9E+07 CFU per pellet.....	01270E7
<i>Candida albicans</i> derived from ATCC® 10231™*,	
1.0-9.9E+03 CFU per pellet.....	0443E3
<i>Candida albicans</i> derived from ATCC® 10231™*,	
1.0-9.9E+07 CFU per pellet.....	0443E7
<i>Candida albicans</i> derived from ATCC® 10231™*,	
1.0-9.9E+04 CFU per pellet.....	0443E4
<i>Clostridium sporogenes</i> derived from ATCC® 11437™*,	
1.0-9.9E+03 CFU per pellet.....	0487E3
<i>Clostridium sporogenes</i> derived from ATCC® 19404™*,	
1.0-9.9E+03 CFU per pellet.....	0317E3
<i>Escherichia coli</i> derived from ATCC® 8739™*,	
1.0-9.9E+03 CFU per pellet.....	0483E3
<i>Escherichia coli</i> derived from ATCC® 8739™*,	
1.0-9.9E+07 CFU per pellet.....	0483E7
<i>Kocuria rhizophila</i> derived from ATCC® 9341™*,	
1.0-9.9E+03 CFU per pellet.....	0688E3
<i>Kocuria rhizophila</i> derived from ATCC® 9341™*,	
1.0-9.9E+04 CFU per pellet.....	0688E4
<i>Pseudomonas aeruginosa</i> derived from ATCC® 9027™*,	
1.0-9.9E+07 CFU per pellet.....	0484E7
<i>Salmonella typhimurium</i> derived from ATCC® 13311™*,	
1.0-9.9E+03 CFU per pellet.....	0421E3
<i>Salmonella typhimurium</i> derived from ATCC® 13311™*,	
1.0 to 9.9 x 10 <sup>7</sup> CFU per pellet.....	0421E7
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> derived from	
ATCC® 6538™*, 1.0-9.9E+03 CFU per pellet.....	0485E3
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> derived from	
ATCC® 6538™*, 1.0 to 9.9 x 10 <sup>7</sup> CFU per pellet.....	0485E7

The mean assay value provided on the Certificate of Assay label is the average assay value obtained by Microbiologics. Specific methods and materials are employed in determining the mean assay value. Your results may differ from the assay value listed on the product's label due to the use of different materials and methods.

ATCC Licensed  
Derivative

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# Preservative Efficacy Testing

## EZ·PEC™

### Antimicrobial Effectiveness and Preservative Efficacy Testing

Antimicrobial Effectiveness and Preservative Efficacy Testing are a critical element to the development of safe and effective Cosmetic and Pharmaceutical products. Ready-to-use EZ-PEC™ quantitative microorganism preparations are designed to provide the required microorganism challenge concentrations for Antimicrobial Effectiveness Tests and Preservative Efficacy Tests. When processed as directed, EZ-PEC™ delivers a final concentration of  $1.0 \times 10^5$  to  $1.0 \times 10^6$  CFU per ml of the product being tested.

#### Features and Benefits:

- More cost-effective than similar products
- Highly characterized, licensed, and traceable strains
- Kit contains microorganisms and hydrating fluid
- Online Certificate of Analysis
- Online Statistical Analysis Certificate
- Product Warranty

#### EZ-PEC™ kit includes:

- 20 lyophilized pellets of a single enumerated strain
- 10 vials of hydrating fluid (2 ml in each vial)

<i>Aspergillus brasiliensis</i> derived from ATCC® 16404™*	0392PEC
<i>Bacillus subtilis</i> subsp. <i>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 aeruginosa</i> derived from ATCC® 9027™*	0484PEC
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> derived from ATCC® 6538™*	0485PEC



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# Enumerated *Mycoplasma*

## Positive controls for *Mycoplasma media*.

Enumerated *Mycoplasma* simplifies compliance with USP <63> / Ph. Eur. 2.6.7 by eliminating the need for manual enumeration. Ready for immediate plating, Enumerated *Mycoplasma* can quickly confirm the ability of agar or broth growth media to support the growth and detection of *Mycoplasma* organisms that may be present in the test inoculum.

- Ready-to-use format saves time and money
- Eliminates the 48 hours to 4 weeks of wait time prior to plating
- Delivers 10,000 – 99,000 CFU/ml (E4)
- Strains are less than or equal to fifteen passages from reference culture to comply with USP <63>/Ph. Eur. 2.6.7
- Traceability to reference cultures ensures authenticity
- Online Certificate of Analysis provides detailed strain information
- Technical Support experts available for guidance
- Shipped frozen on dry ice
- Stored in a -80°C freezer
- Product warranty

<i>Acholeplasma laidlawii</i> derived from NCTC 10116.....	01156ME4
<i>Mycoplasma fermentans</i> derived from NCTC 10117.....	01176ME4
<i>Mycoplasma gallisepticum</i> derived from NCTC 10115.....	01155ME4
<i>Mycoplasma hyorhinis</i> derived from NCTC 10130.....	01178ME4
<i>Mycoplasma orale</i> derived from NCTC 10112.....	01158ME4
<i>Mycoplasma pneumoniae</i> derived from NCTC 10119.....	01177ME4

**Microbiologics**<sup>®</sup>



# Microbiologics® Custom Solutions



## Your Strain

Send your environmental isolate or objectionable microorganism to Microbiologics. Our team will professionally preserve the strain and create a product for your QC testing needs.

## Your Format

Whether you are performing growth promotion, antimicrobial effectiveness or disinfectant qualification, we can design an easy-to-use, convenient QC microorganism product based on your packaging preferences and target concentration for quantitative products.

## Your Convenience

Your custom-designed product is then shipped as needed to your testing location(s) throughout the world. Your lab will save a tremendous amount of time, labor and money.



**Objectionable microorganisms in exact configuration you need.**

**Contact your Hardy Account Manager to get started!**

## Cryogenic Vials



Colored cap inserts available on our online catalog!



## Brucella Broth with 10% Glycerol, and Beads

Store stock organisms for extended periods of time using Hardy Diagnostics CryoSavers™. A simple, safe, and convenient way to store organisms at ultra low temperatures for future use.

2ml cryovial, 1.2ml fill.  
Natural cap, 100/bx.....CS100B

# Anaerobic Microbiology

## 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 AnaeroGen™ sachet, oxygen impermeable pouch, and sealing clip. Each pouch is large enough to hold four 15x100mm Petri plates.

### Features and Benefits

- 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

## Jar System for Anaerobes

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



AnaeroGen™ 2.5 liter Sachets,  
10 sachets/bx..... AN25US

Anaerobic Indicator Strip,  
100 strips/bx..... BR55



# Automated Gram Staining

## QUICKSLIDE™ GRAMPRO 1

### Electro-Optical Decolorization

The **GramPRO 1™** is equipped with a patented electro-optical “eye” that fine tunes the decolorization process while accommodating various sample thicknesses. The **GramPRO 1™** is ideal for standardizing Gram staining in labs and ensuring consistency regardless of technician experience. No more under or over decolorization!

### Fast, Hands-Free Staining

Totally hands free, each slide is automatically stained, decolorized and counter stained in about 5 minutes. Load the slide, select the stain cycle, and walk away! The user is alerted once the staining process is complete.

### Small Compact Size

The **GramPRO 1™** is small enough to fit on any lab counter top. Fits near most microscopes and sinks. The elongated waste tube allows for waste to be contained or disposed down the sink.

### Easy Maintenance

It's as simple as the push of a button. **GramPRO 1™** has built-in cleaning procedures for ease of use and optimal stain quality. No more messy sinks and stained counters! The instrument prompts the user when maintenance is required and gives step-by-step instructions.

*Gram Staining Consistency Every Time!*



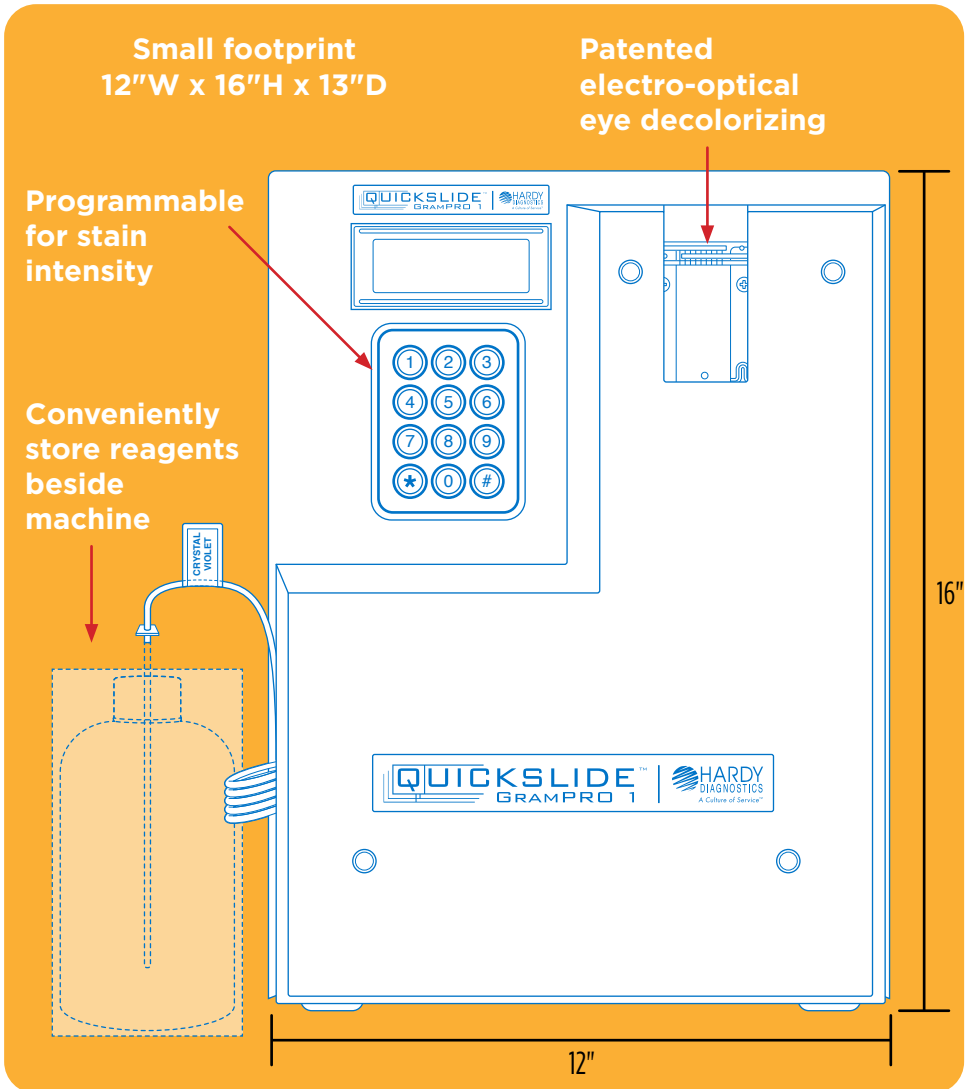
**Cat. no. GP1**

**Instructional videos available online at  
[HardyDiagnostics.com/GramPRO/](http://HardyDiagnostics.com/GramPRO/)**

# Additional Features:

- ▶ Standardization across all shifts and technicians
- ▶ Audible signal when process is complete
- ▶ Individual stain preference controls for color intensity and operator preference
- ▶ No technical expertise required - Produces high quality stain every time
- ▶ Consistency regardless of sample types or thicknesses
- ▶ Need higher throughput? Buy two or three GramPRO 1's to meet your lab needs!
- ▶ Waste is easy to contain or drain

## *Standardization & Consistency*



# Protective Gear

## 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
- Color Option: white or blue. Available in five sizes

### 30/case

Medium.....	NEGU6073M
Large.....	NEGU6073L
XLarge.....	NEGU6073XL



**FREE  
SAMPLES  
AVAILABLE**



## Face Shield

A lightweight and comfortable face shield that is optically clear, has anti-fog properties, fits over glasses, has a foam headband, and is disposable/reusable.

Short Shield for face, 24 per box.....4511

## N95 Particulate Respirator Mask

The N95 meets WHO and CDC recommended protection levels. The NIOSH-defined bacterial filtration efficiency delivers the safe protection needed against airborne pathogens and contamination. One size fits all.

210/case..... USP10206



## PRECISION® Powder Free Nitrile Gloves

Best all-around glove! Soft feel, powder-free, micro-textured, violet-blue.

10x100/box	
Extra Small ..	PCS770
Small.....	PCS772
Medium.....	PCS775
Large.....	PCS776
Extra Large.....	PCS778



# Custom Media Format Options

Have a unique or special requirement? We gladly accept custom formulations!



**Utilize our Design and Development Team for your custom media project**





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donates 1% of each  
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Hardy Diagnostics has a Quality Management System that is certified to ISO 13485 and is a FDA licensed medical device manufacturer.

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