



Pharmaceutical Microbiology

Pharmaceutical Microbiology

CONTENTS

- 2 Environmental Monitoring Contact Plates
- 3 Sterile Environmental Monitoring Plates
- 4 Environmental Testing Swabs
- 5 TRIO.BAS™ Microbial Air Samplers
- 8 Sterility Testing System
- 10 Sterility Testing Culture Media
- 11 Membrane Filtration
- 13 Plate and Tube Media
- 15 Mycoplasma
- 16 Bottle and Jar Media
- 19 Bottle Media with Septum
- 20 ReadyRack™
- 21 Media Bag™
- 21 Criterion™ Dehydrated Culture Media
- 24 QC Microorganisms
- 26 Preservative Efficacy Testing
- 27 Enumerated Mycoplasma
- 28 Microbiologics® Custom Solutions
- 28 Cryogenic Vials
- 29 Anaerobic Microbiology
- 30 Automated Gram Staining
- 32 Protective Gear
- 33 Custom Media



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

Santa Maria, California
Olympia, Washington
Salt Lake City, Utah
Phoenix, Arizona
Dallas, Texas
Springboro, Ohio
Lake City, Florida
Albany, New York
Raleigh, North Carolina

Our Advantage

Hardy 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

LOKTM TIGHT

Contact Plates for Surface Sampling



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



1. Remove lid from plate.



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

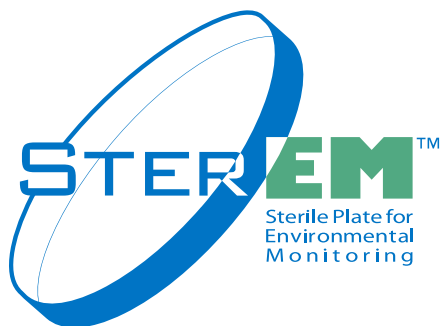


3. Twist clockwise until frosted bands
line up and lid locks into place.



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

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



*Perfect for use with
the TRIO.BAS™
Air Sampler*

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

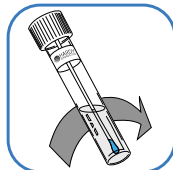
Neutralizing Saline

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

Top Seller!

EnviroMax® Environmental Sampling Swabs

For the collection, transportation, and identification of microorganisms.

- Sterile, pointed, pre-moistened foam tip

- 50% neutralizing buffer, 50% peptone water (0.1%)

- Polypropylene handle

- Individually wrapped

25/box 2588050PF

250/box 2588050PF



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.**



TRIO.BAS™
BIOLOGICAL AIR SAMPLER

Viable Microbia

Introducing the RABS ISOLATOR and MUL

- 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 Stainless Steel
- Multiple satellites allow use of separate media at the same time to determine bacterial and fungal counts
- Bluetooth data transfer capability



**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



Satellites with Tri-Clamps

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

Contact..... BAS320K

Petri..... BAS321K



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.

al Air Samplers

MULTIFLEX Systems

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

- 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
- Robustus 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 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

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

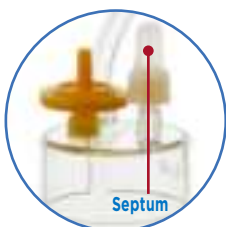
Sterisart® Universal Pump 16420



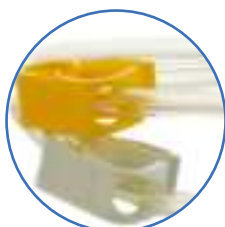
Sterisart Canisters

**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



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



**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 Thioglycollate

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



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 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

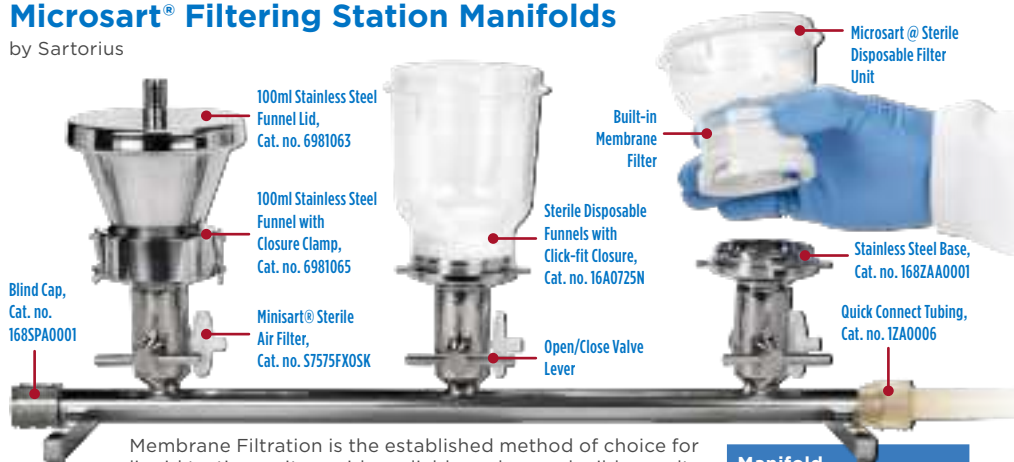
Suitable for testing specimens that contain petrolatum, oils, or oily solutions. Excellent for rinsing pathways of medical devices, and for samples that are difficult to filter or dissolve. 300ml fill, 500ml bottle with needle-port septum, 10/pk..... U348



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
- Sterile 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	16D0110H6BL
0.2	Stacked in bag	24	16D011007TG
0.45µm High-Flow	Stacked in bag	24	16D0110H6TG
0.2	Individually Pkd	27	16D011007ACG
0.45µm High-Flow	Individually Pkd	27	16D0110H6ACG

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
Gray/white	0.45µm	100	1300647ACN

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
White/black	0.45µm High-Flow	450	114H6Z47SFM
Gray/white	0.45µm	300	13006Z47SCM



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

Each166MP4

Foot Switch for e.jet Pump 166MP-4

Each1ZE0053

1 Meter Silicone Vacuum Hose with Quick Connection

Each1ZAS0016

Microsart® maxi.vac Pump

For 3 to 6 place manifolds.

Each1669416022



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/pkU445

Sabouraud Dextrose (Sabdex) Agar

For the cultivation of yeast and mold.
15x100mm plate, USP, 26ml deep fill, 10/pkW70
15x150mm plate, USP, 70ml fill, 10/pk.....H39
25x100mm plate, 60ml deep fill, 5/pk.....W250
20x150mm tube, USP, 18ml deep fill, 100/bx.....Q81
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/pkK54

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

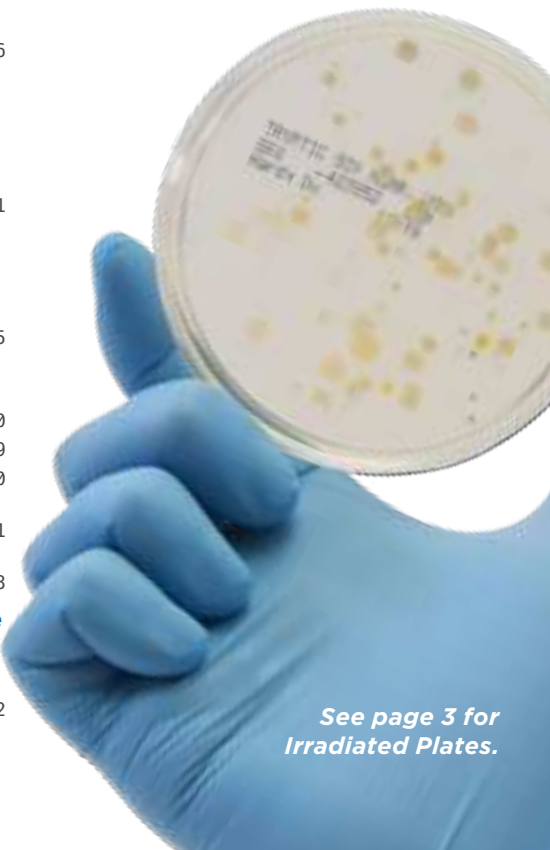
For the cultivation of yeast and mold.
15x100mm plate, 26ml fill, 10/pk.....W71

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/pkH19
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 <i>Pseudomonas aeruginosa</i> .	
• MSA, for the selective isolation and differentiation of <i>Staphylococcus</i> 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 <i>Mycoplasma hominis</i> and <i>Ureaplasma urealyticum</i> .	
15x60mm plate, 10/pk.....	G02

Frey Medium Agar	
Recommended for use in the cultivation and isolation of <i>Mycoplasma</i> species.	
15x60mm plate, 11ml fill, 10/pk.....	G381

Hayflick Medium Broth	
Recommended for use in the cultivation and isolation of <i>Mycoplasma</i> species.	
125ml polycarbonate bottle, 100ml fill, 16/pk	U331

Hayflick Medium Agar	
Recommended for use in the cultivation and isolation of <i>Mycoplasma</i> species.	
15x60mm plate, 11ml fill, 10/pk.....	G385

Mycoplasma Agar	
For the cultivation of <i>Mycoplasma</i> and the detection of <i>Mycoplasma</i> contamination in biologics and biological processes.	
15x60mm plate, 10/pk.....	G362

SP4 Broth with Arginine	
For the selective cultivation and differentiation of <i>Mycoplasma</i> 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 <i>mycoplasmas</i> ; including <i>Mycoplasma hominis</i> , <i>Mycoplasma pneumoniae</i> , and <i>Ureaplasma urealyticum</i> .	
15x60mm plate, 10/pk.....	G21



Bottle and Jar Media

Antibiotic Media, USP

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

#32, 500ml polycarbonate bottle, 400ml fill, 10/pk.....	U532
#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
---	------

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
---	------

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
--	------

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
--	------

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.

120ml boston round glass bottle, 100ml fill, 20/pk.....	U13
130ml polypropylene bottle, 100ml fill, 12/pk.....	U19
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
---	------

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

Lactose Broth with Lecithin and Tween*

Used to detect coliforms in pharmaceuticals.

Also

used to pre-enrich samples for the recovery of *Salmonella* spp.

Tween® 80, 200ml wide mouth glass jar, 90ml fill, 12/pk.....	U105
---	------

MacConkey Broth, USP

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

180ml polycarbonate wide mouth jar, 100ml fill, 12/pk.....	U125
---	------

Peptone Water, 0.1%

For use in preservative testing.
120ml boston round glass bottle, 100ml fill,
20/pk.....U202

Phosphate Buffer, pH 7.2

For sample preparation.
500ml polycarbonate bottle, 500ml fill,
10/pk.....U438

Phosphate Buffer with Magnesium Chloride

For the preparation of dilutions.
1L PET bottle, 1L fill, 10/pkU217
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/pkU294
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/pkU227
473ml boston round glass bottle, 400ml fill,
12/pkU352
500ml polycarbonate bottle, USP,
400ml fill, SabDex, Emmons, 10/pkU356
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/pkU431

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/pkU284
500ml media bottle, 500ml fill, 10/pk.....U324
200ml glass bottle, 200ml fill, 10/pk.....U232
125ml polycarbonate bottle, 50ml fill,
16/pkU336

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
500ml heavy duty glass bottle, 500ml fill, each.....U62
1L polycarbonate bottle, 1L fill, 10/pk.....U67

Tryptic Soy Broth with Lecithin and Tween® 20

For the cultivation of microorganisms.
180ml polycarbonate 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
500ml polycarbonate bottle, 150ml fill, 10/pk.....U350

Tryptic Soy Broth with Lecithin and Tween® 80

For the cultivation of microorganisms.
500ml polypropylene bottle, 500ml fill, 10/pk.....U229



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
--	------

Sabouraud Dextrose Broth, USP

For the cultivation of fungi.

125ml polycarbonate bottle, 100ml fill, 16/pk.....	U73
--	-----

Saline, 0.85% with 0.05% Tween® 80

For preparing dilutions and suspensions of microorganisms.

100ml glass bottle, 100ml fill, 20/pk.....	U330
--	------

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
--	------

Tryptic Soy Broth with Lecithin and Tween® 20

For the cultivation of microorganisms.

100ml glass bottle, 100ml fill, 20/pk.....	U53
--	-----

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.



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.

800.266.2222

Sales@HardyDiagnostics.com

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 caseRR25



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



Needle Port

Spike Port



- 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
------------------------------------	-------

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

Aspergillus brasiliensis derived from ATCC® 16404™ *0392A

Bacillus subtilis ssp. *spizizenii* derived from ATCC® 6633™ *0486A

Burkholderia cenocepacia derived from ATCC® BAA-245™ *01269A

Burkholderia cepacia derived from ATCC® 25416™ *0488A

Candida albicans derived from ATCC® 10231™ *0443A

Clostridium sporogenes derived from ATCC® 11437™ *0487A

ATCC® 19404™ *0317A

Escherichia coli derived from ATCC® 8739™ *0483A

Pseudomonas aeruginosa derived from ATCC® 9027™ *0484A

Salmonella enterica subsp. *enterica* serovar Typhimurium derived from ATCC® 13311™ * ...0421A

Salmonella enterica subsp. *enterica* serovar Typhimurium derived from ATCC® 14028™ *0363A

Staphylococcus aureus derived from ATCC® 6538™ *0485A

ATCC® 6538™ *0485A

ATCC Licensed
Derivative

* Look for the ATCC Licensed Derivative* Emblem for all products derived from ATCC® cultures. The ATCC Licensed Derivative Emblem, the ATCC Licenses Derivative Work Mark, and the ATCC Catalog Marks are trademarks of ATCC. Microbiology, Inc. is licensed to use these trademarks and to sell products derived from ATCC® cultures.



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 10^2 to 10^8 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.



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.

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 9.9×10^7 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 9.9×10^7 CFU per pellet.....	0485E7

ATCC Licensed
Derivative

Look for the ATCC Licensed Derivative Emblem for all products derived from ATCC® cultures. The ATCC Licensed Derivative Emblem, the ATCC Licenses Derivative Work Mark, and the ATCC Catalog Marks are trademarks of ATCC. Microbiologics, Inc. is licensed to use these trademarks and to sell products derived from ATCC® cultures.

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 1.0×10^5 to 1.0×10^6 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



ATCC Licensed
Derivative

® "Look for the ATCC Licensed Derivative" Emblem for all products derived from ATCC® cultures. The ATCC Licensed Derivative Emblem, the ATCC Licenses Derivative Work Mark, and the ATCC Catalog Marks are trademarks of ATCC. Microbiology, Inc. is licensed to use these trademarks and to sell products derived from ATCC® cultures.

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®



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



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!



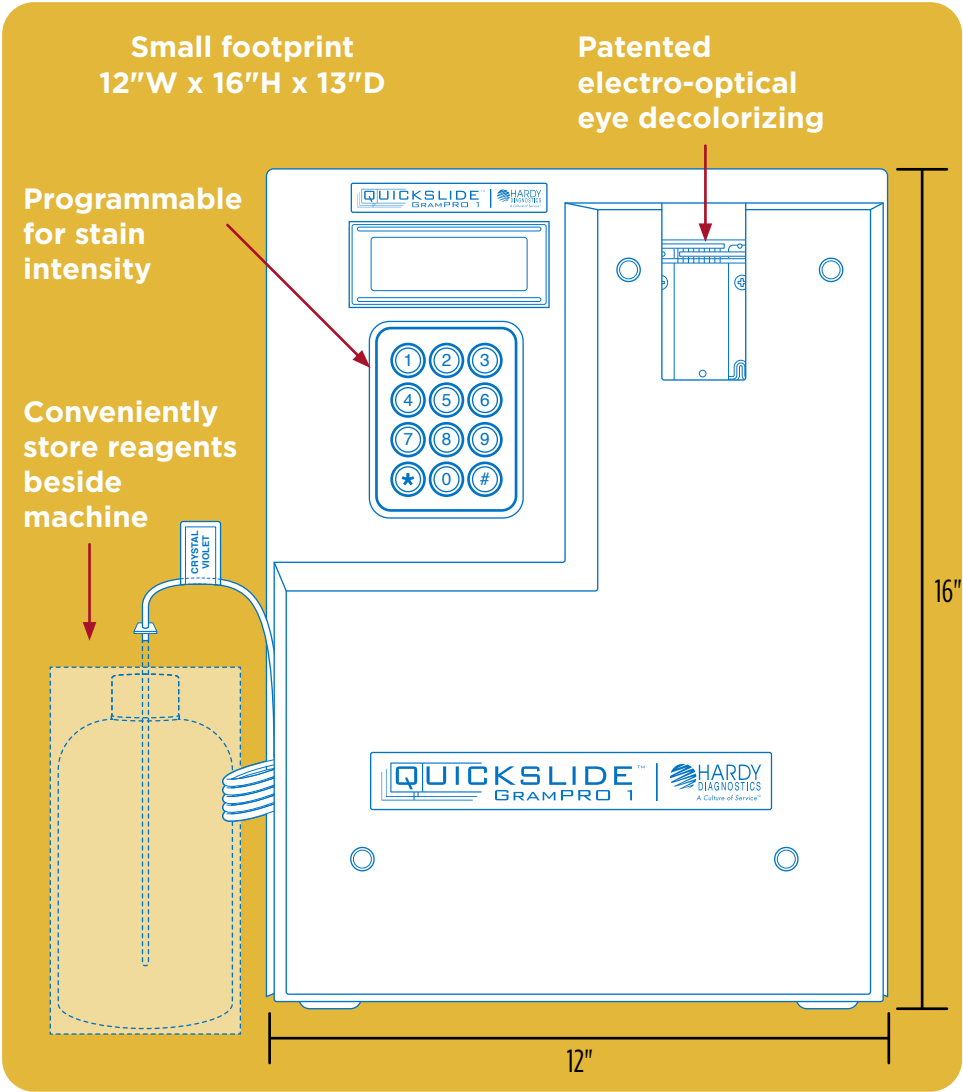
Cat. no. GP1

**Instructional videos available online at
HardyDiagnostics.com/GramPRO/**

Additional Features:

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

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

Small	CP20S
Medium.....	CP20M
Large	CP20L
XLarge	CP20XL
XXLarge	CP20XXL



**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**





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