



[www.agapilabsolutions.com](http://www.agapilabsolutions.com)

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QC & QA

# Pharmaceutical Microbiology

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**A** RROW aims to provide intelligently designed scientific Products, Knowledge Management, & Logistical Services, in short distributing science solutions.

Here the arrow organization are committed to providing you the best experience: Simple and Hassle free – Anyone in our team will be able to help you place orders, provide status on your orders or direct you with specialists that to help identify which product would best meet your needs, as well as cost effective. To help ensure your experience is exceptional, we are providing some educational information as well as what you can expect from us:

## USP Compliant Quality Control

For items designated USP, Arrow Lab Solutions quality control testing is done in accordance with the requirements set forth in *USP 35–NF 30, 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; 2012:56-60, 60-65, and 69-74.

## Quality Assurance Program

All of the products manufactured 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 an email away.

## Online Catalog and Ordering

To save time, you can quickly locate any of our products, including current pricing, at our website,. Ordering online is easy and allows you to save a list of your “favorite” products, view past orders, and receive order status email notifications.

ISO 13485  
FM 572526

## Custom Product Distribution

Arrow can provide an array of Balances for all markets. Arrow can supply you any balance you desire we have researched and chose-distribute lab weighing products from Sartorius as our recommended choice. We supply high-quality laboratory weighing instruments with excellent services for our customers within research/quality assurance laboratories of the pharmaceutical, chemical and food | Beverage industries as well as the academic sector.



# Prepared Culture Media Plates and Tubes

## 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, 8ml fill, 20/pk .....K257  
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 A, USP

A rinsing and diluting fluid.  
20x125mm tube, 18ml fill, 20/pk .....K205

## Fluid D, USP

To insure sterility of injectables, non-injectables, liquid products, oils and ointments, antibiotic powders, sterile pathway devices and aerosols.  
16x125mm tube, 9ml fill, 20/pk .....K168

## 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  
20x125mm tube, 15ml fill, 20/pk ..... K84

## Fluid Thioglycollate with Beef Extract, USP

For the cultivation of microorganisms and USP sterility procedures.  
16x125mm tube, 10ml fill, 20/pk .....K127

## Fluid Thioglycollate with Hemin and Vitamin K

For the cultivation of aerobic, microaerophilic, and anaerobic microorganisms.  
16x125mm tube, 10ml fill, 20/pk ..... K73

## MacConkey Agar

For the isolation and differentiation of gram-negative bacteria.  
15x100mm plate, 19ml fill, 10/pk ..... G603

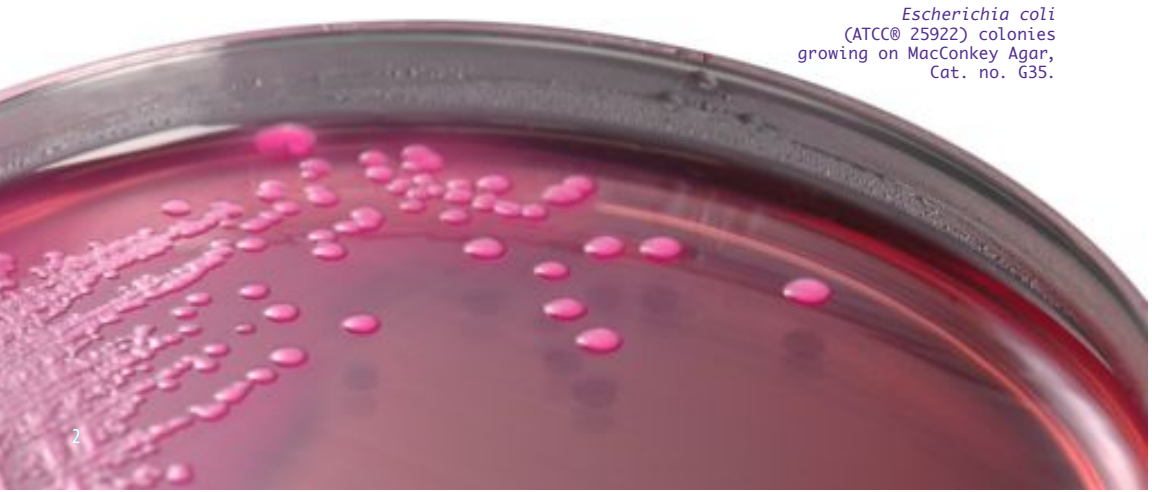
## Mannitol Salt Agar (MSA)

For the selective isolation and differentiation of *Staphylococcus* spp.  
15x100mm plate, 18ml fill, 10/pk .....G602

## Nutrient Agar

For the isolation and cultivation of nonfastidious microorganisms.  
20x150mm tube, 20ml deep, 100/bx ..... Q84

*Escherichia coli*  
(ATCC® 25922) colonies  
growing on MacConkey Agar,  
Cat. no. G35.



### Potato Dextrose Agar

For the cultivation of yeast and mold.

15x100mm plate, 26ml deep fill, 10/pk.....	W60
15x150mm plate, USP, 68ml fill, 10/pk.....	H51
20x125mm pour tube, USP, 18ml deep fill, 20/pk.....	Q29

### Pseudomonas Agar F, USP

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

15x100mm plate, 18ml fill, 10/pk.....	G198
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### Pseudomonas Agar P, USP

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

15x100mm plate, 18ml fill, 10/pk.....	G201
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### Rappaport-Vassiliadis Broth, USP

For the selective enrichment of *Salmonella* spp.

16x125mm tube, 10ml fill, 10/pk.....	K246
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### Sabouraud Dextrose Agar, USP

For the cultivation of yeast and mold.

15x100mm plate, 26ml deep fill, 10/pk.....	W701
15x150mm plate, 70ml fill, 10/pk.....	H39
25x100mm plate, 60ml deep fill, 5/pk.....	W250
20x150mm tube, 20ml deep fill, 100/pk.....	Q83

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

For the cultivation of yeast and mold.

15x100mm plate, 26ml fill, 10/pk.....	W71
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### Tryptic Soy Agar (TSA)

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

15x100mm plate, USP, 18ml fill, 10/pk.....	G601
15x100mm plate, 18ml fill, 100/bx.....	G60BX
15x100mm plate, USP, 26ml fill, 10/bx.....	W64
15x100mm plate, USP, 69ml fill, 10/bx.....	H19
15x100mm, USP, Triple bagged, 2/pk.....	G267
20x125mm pour tube, USP, 18ml deep fill, 20/pk.....	Q58
20x150mm tube, 20ml deep fill, 100/bx.....	Q85
20x150mm tube, USP, 1.5x, 20ml deep fill, 100/pk.....	Q80
86x128mm omniplate, USP, 30ml fill, 10/pk.....	G246

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

For the cultivation and enumeration of microorganisms.

20x125mm tube, deep, 18ml fill, 20/pk.....	Q13
15x100mm plate, 27ml fill, 10/pk.....	G41

### Tryptic Soy Broth (TSB), USP

For sterility testing and cultivation of microorganisms. Also known as Soybean-Casein Digest Broth.

5ml in 12cc luer lock plastic syringe, 10/pk.....	S37
16x100mm tube, 5ml fill, 20/pk.....	K89
16x125mm tube, 10ml fill, 20/pk.....	K90
16x125mm tube, 10ml fill, 100/pk.....	K82
20x125mm tube, 15ml fill, 20/pk.....	K83
20x150mm tube, 20ml fill, 100/pk.....	K380

### Violet Red Bile Agar (VRBA)

For the detection and enumeration of coliforms in food, water, and dairy products.

15x100mm plate, USP, 18ml fill, 10/pk.....	G78
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### Violet Red Bile with Glucose Agar (VRBGA)

For the detection of *Enterobacteriaceae*.

15x100mm plate, USP, 18ml fill, 10/pk.....	G178
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### Xylose Lysine Deoxycholate (XLD)

For the selective isolation of pathogenic, enteric, gram-negative bacteria.

15x100mm plate, 18ml fill, 10/pk.....	G604
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## Bottle Size Comparison

# Bottle and Jar Media

- ① 500ml (16oz) heavy duty glass bottle
- ② 500ml (16oz) boston round glass bottle
- ③ 250ml (8oz) boston round glass bottle
- ④ 125ml (4oz) boston round glass bottle
- ⑤ 59ml (2oz) boston round glass bottle
- ⑥ 250ml (8oz) wide mouth glass jar
- ⑦ 125ml (4oz) polypropylene bottle
- ⑧ 250ml (8oz) polycarbonate wide mouth jar
- ⑨ 125ml (4oz) polycarbonate bottle
- ⑩ 500ml (16oz) polycarbonate bottle
- ⑪ 1L (32oz) polycarbonate bottle



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### Antibiotic Media, USP <81>

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

⑩ #1, 500ml polycarbonate bottle, 400ml fill, 10/pk.....	U501
⑩ #8, 500ml polycarbonate bottle, 400ml fill, 10/pk.....	U508
⑩ #11, 500ml polycarbonate bottle, 400ml fill, 10/pk.....	U511
⑩ #32, 500ml polycarbonate bottle, 400ml fill, 10/pk.....	U532

### Buffer No. 3, USP <81>

For use in antibiotic potency assays.

⑩ 500ml polycarbonate bottle, 500ml fill, 10/pk.....	U303
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### Buffer No. 4, USP <81>

For use in antibiotic potency assays.

⑩ 500ml polycarbonate bottle, 500ml fill, 10/pk.....	U307
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### Buffered Sodium Chloride Peptone, USP

For use as a rinse fluid for membrane filtration methods.

⑩ 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.

⑧ 250ml polycarbonate wide mouth jar, 90ml fill, 12/pk.....	U255
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### EE Broth Mossel, USP

For the selective enrichment of *Enterobacteriaceae*.

⑧ 250ml polycarbonate wide mouth jar, 90ml fill, 12/pk.....	U291
⑧ 250ml wide mouth polycarbonate jar, 100ml, 12/pk.....	U391

### Fluid A, USP

For use as a diluting and rinsing fluid.

④ 125ml boston round glass bottle, 100ml fill, 20/pk.....	U13
⑦ 125ml polypropylene bottle, 100ml fill, 12/pk.....	U19
⑧ 250ml polycarbonate wide mouth jar, 90ml fill, 12/pk.....	U17
⑪ 1L polycarbonate bottle, 1L fill, 10/pk.....	U208

### Fluid D, USP

A rinsing and diluting fluid.

⑥ 250ml wide mouth glass jar, 100ml fill, 12/pk.....	U135
⑩ 500ml polycarbonate bottle, 300ml fill, 10/pk.....	U210
⑩ 500ml polycarbonate bottle, 500ml fill, 10/pk.....	U215
⑪ 1L polycarbonate bottle, 1L fill, 10/pk.....	U115

### Fluid K, USP

A diluting and rinsing fluid.

⑪ 1L polycarbonate bottle, 1L fill, 10/pk.....	U206
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### Fluid Thioglycollate Broth with Indicator, USP

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

- 5 59ml boston round glass bottle, 50ml fill, 24/pk.....U45
- 6 250ml wide mouth glass jar, 100ml fill, 12/pk.....U41
- 3 250ml boston round glass bottle, 100ml fill, 12/pk.....U3121
- 3 250ml boston round glass bottle, 150ml fill, 12/pk.....U312
- 3 250ml boston round glass bottle, 200ml fill, 12/pk.....U247

### Lactose Broth with Lecithin and Tween®

Used to detect coliforms in pharmaceuticals. It can also be used to pre-enrich samples for the recovery of *Salmonella* spp.

- 8 Tween® 20, 250ml polycarbonate wide mouth jar, 90ml fill, 12/pk.....U252
- 8 Tween® 80, 250ml polycarbonate wide mouth jar, 90ml fill, 12/bx.....U105
- 10 Tween® 80, 500ml polycarbonate bottle, 500ml fill, 10/pk.....U246
- 11 Tween® 80, 1L polycarbonate bottle, 1L fill, 10/pk.....U317

### MacConkey Broth, USP

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

- 8 250ml polycarbonate wide mouth jar, 100ml fill, 12/pk.....U125

### Peptone Water, 0.5%, USP

For use as a diluent and preparation of suspensions.

- 4 125ml boston round glass bottle, 99ml, 20/pk.....U299

### Phosphate Buffer with Magnesium Chloride, USP

For the preparation of dilutions.

- 11 1L polycarbonate bottle, 1L fill, 10/pk.....U217
- 10 500ml polycarbonate bottle, 500ml fill, 10/pk.....U193



### Potato Dextrose Agar, USP

For the cultivation of yeast and mold.

- 4 125ml boston round glass bottle, 100ml fill, 20/pk.....U94
- 3 250ml boston round glass bottle, 200ml fill, 12/pk.....U294
- 2 500ml boston round glass bottle, 400ml fill, 12/pk.....U394



## Sabouraud Dextrose Agar

For the cultivation of yeast and mold.

10	500ml polycarbonate bottle, 150ml fill, SabDex, Emmons, 10/pk.....	U107
10	500ml polycarbonate bottle, USP, 200ml fill, 10/pk.....	U270
2	500ml boston round glass bottle, USP, 200ml fill, 12/pk.....	U227
2	500ml boston round glass bottle, USP, 400ml fill, 12/pk.....	U352
10	500ml polycarbonate bottle, 400ml fill, SabDex, Emmons, 10/pk.....	U356
10	500ml polycarbonate bottle, USP, 500ml fill, 10/pk.....	U353

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

For the cultivation of yeast and mold.

10	500ml polycarbonate bottle, 400ml fill, 10/pk.....	U175
2	500ml boston round glass bottle, 400ml fill, 12/pk.....	U431

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

For the cultivation of anaerobic bacteria. Filtered to remove dead bacteria.

4	125ml boston round glass bottle, 100ml fill, 20/pk.....	U43
2	500ml boston round glass bottle, 500ml fill, Each.....	U61

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

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

4	125ml boston round glass bottle, 90ml fill, 20/pk.....	U87
8	250ml polycarbonate wide mouth jar, 99ml fill, 12/pk.....	U88
11	1L polycarbonate bottle, 490ml fill, 10/pk.....	U318
11	1L polycarbonate bottle, 1L fill, 10/pk.....	U319

## Tryptic Soy Agar

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

5	59ml boston round glass bottle, USP, 25ml fill, 16/pk.....	U386
3	250ml boston round glass bottle, USP, 150ml fill, 20/pk.....	U49
3	250ml boston round glass bottle, 150ml fill, 1.5X strength, 20/pk.....	U112
3	250ml boston round glass bottle, USP, 200ml fill, 12/pk.....	U260
2	500ml boston round glass bottle, USP, 400ml fill, 12/pk.....	U360
2	500ml boston round glass bottle, USP, 500ml fill, each.....	U158
10	500ml polycarbonate bottle, USP, 500ml fill, 10/pk.....	U361
11	1L polycarbonate bottle, USP, 700ml fill, 10/pk.....	U60





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

For the cultivation and enumeration of microorganisms.

- ⑩ 500ml polycarbonate bottle, 400ml fill, 10/pk.....U174
- ② 500ml boston round glass bottle, 400ml fill, 12/pk.....U412

## Tryptic Soy Broth with Lecithin and Tween® 20, USP

Recommended for the cultivation of microorganisms.

- ⑧ 250ml polycarbonate wide mouth jar, 90ml fill, 12/pk.....U241
- ⑧ 250ml polycarbonate wide mouth jar, 100ml fill, 12/pk.....U261

## Tryptic Soy Broth, USP

For sterility testing and cultivation of microorganisms.

- ⑤ 59ml boston round glass bottle, 20ml fill, 16/pk.....U52
- ⑥ 250ml wide mouth glass jar, 25ml fill, 12/pk.....U223
- ⑤ 59ml boston round glass bottle, 50ml fill, 24/pk.....U44
- ④ 125ml boston round glass bottle, 100ml fill, 20/pk.....U42
- ⑥ 250ml wide mouth glass jar, 90ml fill, 12/pk.....U133
- ⑥ 250ml wide mouth glass jar, 100ml fill, 12/pk.....U71
- ③ 250ml boston round glass bottle, 160ml fill, 12/pk.....U171
- ② 500ml boston round glass bottle, 400ml fill, 12/pk.....U242
- ① 500ml heavy duty glass bottle, 500ml fill, Each.....U62
- ⑩ 500ml polycarbonate bottle, 500ml fill, Each.....U63
- ⑪ 1L polycarbonate bottle, 1L fill, 10/pk.....U67

## Tryptic Soy Broth, Double Strength, USP

For the cultivation of microorganisms.

- ④ 125ml boston round glass bottle, 25ml fill, 12/pk.....U225
- ⑥ 250ml wide mouth glass jar, 50ml fill, 12/pk.....U205
- ⑥ 250ml wide mouth glass jar, 100ml fill, 12/pk.....U70
- ⑩ 500ml polycarbonate bottle, 150ml fill, 10/pk.....U350

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

For the cultivation of microorganisms.

- ⑥ 250ml wide mouth glass jar, 90ml fill, 12/pk.....U134
- ⑩ 500ml polycarbonate bottle, 500ml fill, 10/pk.....U229

## Violet Red Bile Agar, USP

For the detection and enumeration of coliforms.

- ⑨ 125ml polycarbonate bottle, 100ml fill, 16/pk.....U96
- ③ 250ml boston round glass bottle, 200ml fill, 12/pk.....U296
- ② 500ml boston round glass bottle, 400ml fill, 12/pk.....U396



# Bottle Media with Septum

## Septum Bottle Size Comparison



- A** 20ml glass bottle with flip seal
- B** 100ml glass bottle with flip seal
- C** 125ml (4oz) polycarbonate bottle
- D** 200ml glass bottle with flip seal
- E** 500ml (16oz) glass bottle
- F** 500ml (16oz) polycarbonate bottle



## Fluid A, USP

A rinsing and diluting fluid.

- B** 100ml glass bottle, 100ml fill, 20/pk .....U109
- D** 200ml glass bottle, 200ml fill, 21/pk .....U209
- F** 500ml polycarbonate bottle, 300ml fill, 10/pk .....U349
- E** 500ml glass bottle, 300ml fill, 10/pk .....U342
- E** 500ml glass bottle, 600ml fill, 10/pk .....U249

## Fluid D, USP

A rinsing and diluting fluid.

- B** 100ml glass bottle, 100ml fill, 20/pk .....U110
- E** 500ml glass bottle, 300ml fill, 10/pk .....U346

## Fluid K, USP

To ensure sterility of pharmaceuticals and medical devices.

- E** 500ml glass bottle, 300ml fill, 10/pk .....U348

## Fluid Thioglycollate Broth Medium with Indicator, USP

For the cultivation of microorganisms and USP sterility procedures.

- A** 20ml glass bottle, 10ml fill, 50/pk .....U6610
- A** 20ml glass bottle, 12ml fill, 50/pk .....U6612
- A** 20ml glass bottle, 15ml fill, 50/pk .....U66
- A** 20ml glass bottle, 20ml fill 50/pk .....U68
- B** 100ml glass bottle, 50ml fill, 20/pk .....U269
- B** 100ml glass bottle, 100ml fill, 12/pk .....U47
- C** 125ml polycarbonate bottle, 100ml fill, 16/pk .....U121
- D** 200ml glass bottle, 150ml fill, 12/pk .....U207
- E** 500ml glass bottle, 400ml fill, 12/pk .....U272
- E** 500ml glass bottle, 500ml fill, 12/pk .....U273

## Fluid Thioglycollate with Lecithin and Tween® 80, USP

Recommended for use in detecting microorganisms in normally sterile materials.

- B** 100ml glass bottle, 100ml fill, 20/pk .....U219

## Reinforced Clostridial Medium, USP

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

- C** 125ml polycarbonate bottle, 100ml fill, 16/pk .....U172

## Tryptic Soy Broth, USP

Recommended for use as a general purpose medium for the isolation and cultivation of a wide variety of bacteria and fungi.

- A** 20ml glass bottle, 10ml fill, 50/pk .....U8210
- A** 20ml glass bottle, 15ml fill, 50/pk .....U82
- A** 20ml glass bottle, 20ml fill, 50/pk .....U38
- B** 100ml glass bottle, 50ml fill, 20/pk .....U267
- B** 100ml glass bottle, 70ml fill, 20/pk .....U79
- B** 100ml glass bottle, 100ml fill, 20/pk .....U46
- B** 100ml glass bottle, unlabeled, 100ml fill, 20/pk .....U56
- C** 125ml polycarbonate bottle, 100ml fill, 16/pk .....U141
- E** 500ml glass bottle, 400ml fill, 12/pk .....U271
- E** 500ml glass bottle, 500ml fill, 12/pk .....U274

## Tryptic Soy Broth with 10% Glycerol

For the preservation of microorganisms by freezing.

- B** 100ml glass bottle, 100ml fill, 20/pk .....U127

## Tryptic Soy Broth with Lecithin and Tween® 20, USP

For the cultivation of microorganisms.

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

## Sabouraud Dextrose Broth, USP

For the cultivation of fungi.

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

## Saline, 0.85% with 0.05% Tween® 80

For preparing dilutions and suspensions of microorganisms.

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



## Dehydrated Culture Media

Hardy Diagnostics' dehydrated culture media, CRITERION™, is formulated to meet or exceed the highest quality standards. Choose from 250 standard formulas or request custom blending to your specifications. The innovative packaging designs and overall reliability make CRITERION™ the logical choice for culture media in your laboratory.

- Wide mouth opening - reduces dust formation by allowing the easy entry of a scoop.
- Convenient hand grip - 'no slip' finger holds.
- Stackable containers - for efficient storage.
- Increased solubility - dissolves quickly.
- Custom and bulk products available - to your specifications.
- Competitive pricing - call for a price quote for large volume purchases!
- Unparalleled performance - tested for optimal growth.



### Test for Bile-Tolerant Gram Negative Bacteria

#### Enterobacteriaceae Enrichment Broth, Mossel

For the selective enrichment and detection of *Enterobacteriaceae*.

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

#### Violet Red Bile Glucose Agar (VRBGA)

For the detection and enumeration of *Enterobacteriaceae* in food and dairy products.

500gm wide-mouth bottle, each .....	C7271
2kg bucket, each .....	C7272
10kg bucket, each .....	C7273
Mylar® zip-bag, makes 2L, each .....	C7270



### Test for *Escherichia coli*

#### MacConkey Broth

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

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

#### 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.

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

### Test for *Salmonella*

#### Rappaport Vassiliadis Salmonella Enrichment Broth

For the detection and isolation of motile *Salmonella* spp. in feces and food products.

500gm wide-mouth bottle, each .....	C6741
2kg bucket, each .....	C6742
10kg bucket, each .....	C6743
Mylar® zip-bag, makes 2L, each .....	C6740



### **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* from fecal and other specimens.

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

### **Test for *Staphylococcus aureus***

#### **Mannitol Salt Agar (MSA)**

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

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

### **Test for Clostridia**

#### **Reinforced Clostridial Medium**

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

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

#### **Columbia Agar**

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

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

### **Test for *Candida albicans***

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

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

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

### **Sabouraud Dextrose (SabDex) Broth**

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

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

#### **Potato Dextrose Agar**

For the cultivation and identification of fungi.

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

### **Microbial Enumeration Tests**

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

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

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

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

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

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

### **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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# Contact Plates

## Non-irradiated

### Baird-Parker Agar

For the selective isolation and enumeration of coagulase positive *Staphylococcus aureus* from environmental surfaces.  
15x60mm contact plate, 10/pk..... P16

### D/E Neutralizing Agar

Neutralizes chemical disinfectants allowing for the detection of microorganisms from environmental surfaces.  
15x60mm contact plate, 10/pk ..... P99

### Eosin Methylene Blue (EMB) Agar

For isolation and differentiation of gram-negative bacilli, including coliforms, from environmental surfaces.  
15x60mm contact plate, 10/pk..... P09

### MacConkey Agar, USP

For isolation and differentiation of gram-negative bacteria.  
15x60mm contact plate, 10/pk..... P47

### Malt Extract Agar

For the cultivation of yeast and mold from environmental surfaces.  
With chloramphenicol, 15x60mm contact plate, 10/pk..... P80  
Without chloramphenicol, 15x60mm contact plate, 10/pk..... P93

### Mannitol Salt Agar (MSA)

For the selective isolation and differentiation of pathogenic *Staphylococcus* spp. from environmental surfaces.  
15x60mm contact plate, 10/pk..... P98

### Potato Dextrose Agar (PDA) with Lecithin and Tween® 80

For the cultivation of yeast and mold from environmental surfaces.  
15x60mm contact plate, 10/pk..... P62

### R2A Agar

R2A is recommended for enumeration of heterotrophic bacteria from environmental surfaces.  
15x60mm contact plate, 10/pk..... P32

### Rose Bengal Agar with Chloramphenicol

For the selective isolation and enumeration of yeast and mold from environmental surfaces.  
15x60mm contact plate, 10/pk..... P42

### Sabouraud Dextrose Agar

For the isolation and enumeration of yeast and mold from environmental surfaces.  
15x60mm contact plate, 10/pk..... P36

### Standard Methods Agar with Lecithin and Tween® 80

For the enumeration of aerobic bacteria from environmental surfaces.  
15x60mm contact plate, 10/pk..... P51

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

For the general cultivation of microorganisms from environmental surfaces.  
15x60mm contact plate, 12ml fill, 10/pk ..... P34  
15x60mm contact plate, double bagged, 10/pk ..... P34D  
15x60mm contact plate, 15ml fill, 10/pk ..... P45  
15x100mm contact plate, 27ml fill, 10/pk..... W41

### Tryptic Soy Agar with 5% Sheep Blood

For the cultivation of microorganisms from environmental surfaces. 5% sheep blood in TSA Base.  
15x60mm contact plate, 10/pk..... P33

With



Friction Lid



# Contact Plates

## Irradiated for Cleanroom Quality Assurance

### Features and Benefits

- **Tap Tight™ Friction Lids** - Simply tap the contact plate lid to affix it securely to the base. No twisting required.
- **Molded Gridlines** - Each contact plate has a grid molded into the bottom of the plate to aid in the counting of microorganisms.
- **Sterile by Irradiation** - Validated for a Sterility Assurance Level (SAL) of 10<sup>-6</sup>.
- **Triple Bagged** - Two nylon inner bags with twist ties. One outer Mylar® bag that is heat sealed.
- **Hydrogen Peroxide Vapor (HPV) Barrier** - Impermeable outer bag for use with HPV systems.
- **Tear Notch on Outer Bag** - For easy opening. No scissors required.
- **Certificates of Analysis** - Available at the Hardy Diagnostics website 24/7.
- **Certified to ISO 13485** - Manufactured in a licensed cGMP facility with the quality management system certified to ISO 13485.
- **Long Shelf Life** - 210 day shelf life from the date of manufacture.\*
- **Room temperature storage** - Frees up refrigerator space for other uses.\*

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

Triple bagged, 15x60mm, 6/pk.....P174  
 Triple bagged, 15x60mm, 20/pk.....P74

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

Triple bagged, 15x60mm, 20/pk.....P75

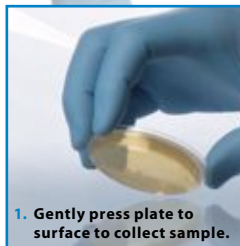
### D/E Neutralizing Agar\*

Triple bagged, 15x60mm, 20/pk.....P13

*\*Exception: D/E Neutralizing Agar has a shorter shelf life and is stored in the refrigerator.*



With  
**Tap**  
 Tight™  
 Contact Plates  
 Friction Lid



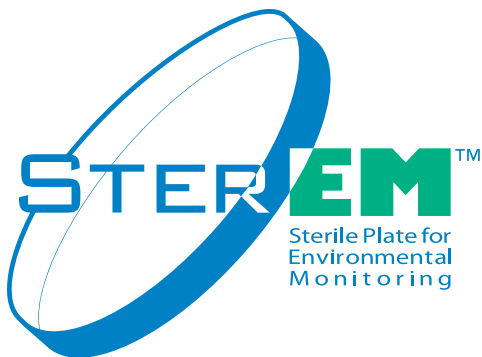
Tap Tight™ Contact Plates are available exclusively through

[www.agapilabsolutions.com](http://www.agapilabsolutions.com)

**Contact Us:**

Phone 1 (267) 397-3345

E-mail [customerservice@agapilabsolutions.com](mailto:customerservice@agapilabsolutions.com)



# Sterile Environmental Monitoring Plates

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

For the cultivation of microorganisms.  
 15x100mm plate, 18ml fill, 20/pk.....G167  
 15x100mm plate, 32ml fill, 20/pk.....W367  
 15x150mm plate.....H64

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

For the cultivation and enumeration of microorganisms and to monitor microbial contamination. Neutralizes disinfectants.  
 15x100mm plate, 18ml fill, 20/pk.....G253

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

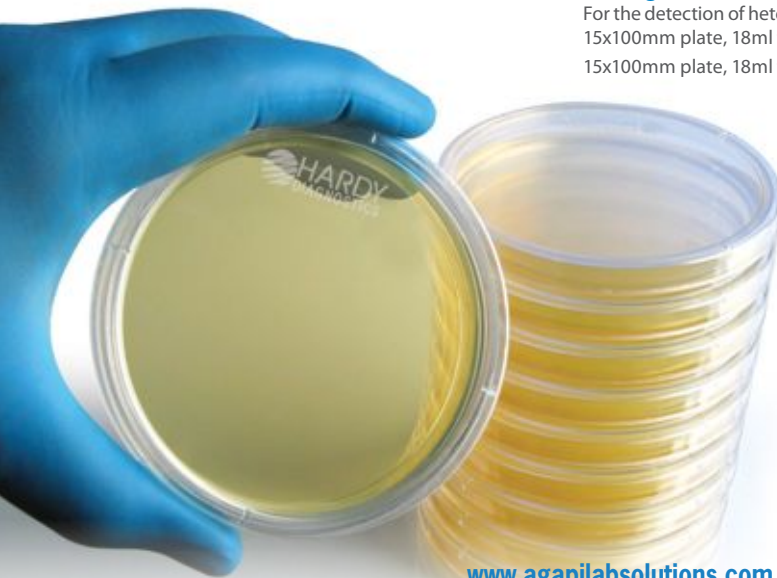
For the detection and enumeration of yeast and mold from environmental sources.  
 15x100mm plate, 18ml fill, 20/pk.....G177

## R2A Agar, Irradiated

For the detection of heterotrophic bacteria in water.  
 15x100mm plate, 18ml fill, triple bagged, 20/pk.....G377  
 15x100mm plate, 18ml fill, double bagged, 20/pk....G154

### Features and Benefits

- **Sterile by Irradiation** - Validated for a Sterility Assurance Level (SAL) of 10<sup>-6</sup>.
- **Certificates of Analysis** - Available at the Hardy Diagnostics website 24/7.
- **Certified to ISO 13485** - Manufactured in a licensed cGMP facility with the quality management system certified to ISO 13485.
- **180 day shelf-life** - At room temperature storage.



**New Features Coming Soon**

- **Triple Bagged**  
Two nylon inner bags with twist ties. One outer Mylar® bag that is heat sealed.
- **Hydrogen Peroxide Vapor (HPV) Barrier**  
impermeable outer bag for use with HPV systems.
- **Tear Notch on Outer Bag**  
For easy opening. No scissors required.
- **Room Temperature Storage**  
Frees up refrigerator space for other uses.

[www.agapilabsolutions.com](http://www.agapilabsolutions.com)

### Contact Us:

Phone 1 (267) 397-3345

E-mail [customerservice@agapilabsolutions.com](mailto:customerservice@agapilabsolutions.com)

# Impact Air Sampling

## Spin Air Sampler

This innovative microbiological air sampler pulls air in a controlled fashion against the spinning agar plate.

- A unique rotating plate holder for even surface spread of microorganisms, for improved accuracy.
- Bar code connectivity.
- Sampling by volume (not timed) for higher accuracy and reproducibility.
- Utilizes standard 60mm or 100mm agar plates.
- Rechargeable battery pack, for up to eight hours of operation.
- Delayed activation mode to avoid collector contamination.
- Optional duplicate simultaneous sampling with a low cost slave unit.

Each.....5500



## AirPort MD8 Portable Air Sampler

The AirPort MD8 utilizes the gelatin membrane filter method for collecting airborne microorganisms and boasts a 99.9% retention rate for airborne microorganisms compared with 40%-60% for other collection methods. It is also the only method capable of reliably collecting airborne viruses.

- Battery operated and portable.
- Ergonomically designed.
- Easy to clean.
- User friendly prompting with the option of four languages: English, French, German and Spanish.
- Adjustable air throughput and air flow rate.
- Parameters last used are stored even after automatic shut-off.
- Can be calibrated on-site.

Each.....16757

## Gelatin Membrane Filter Units

For collection of airborne microbes and viruses.

- For use with the AirPort MD8 Air Sampler.
- Sterile and individually packed.

Single bagged, 10/pk ..... 1752880ACD

Triple bagged, 10/pk.....1752880BZD





# Sterility Testing

## Sterisart® Universal Pump Sterility Testing System

International pharmacopeia require the complete sterility of pharmaceutical products, such as parenterals, that are injected into the blood stream or that otherwise enter the body below the skin surface.

The preferred method for sterility testing is the membrane filter method using a closed sterility test system, such as the new disposable sterility test system Sterisart®. The Sterisart® Universal pump is a peristaltic pump made of stainless steel, and is equipped with appropriate features for attaching a Sterisart® canister and a sample container.

After these have been positioned and the sterility test system spike has been inserted into the sample container, the pump is started. The pump draws liquid from the sample container into the specially designed double tubing, distributing the liquid equally to both Sterisart® canisters. Similarly, the pump then flushes the Sterisart® canisters with rinse liquid (such as Fluid A). Finally, the pump fills the two Sterisart® canisters with culture media, such as TSB, Cat. no. U46, or FTM, Cat. no. U47. The Sterisart® canisters are then incubated.



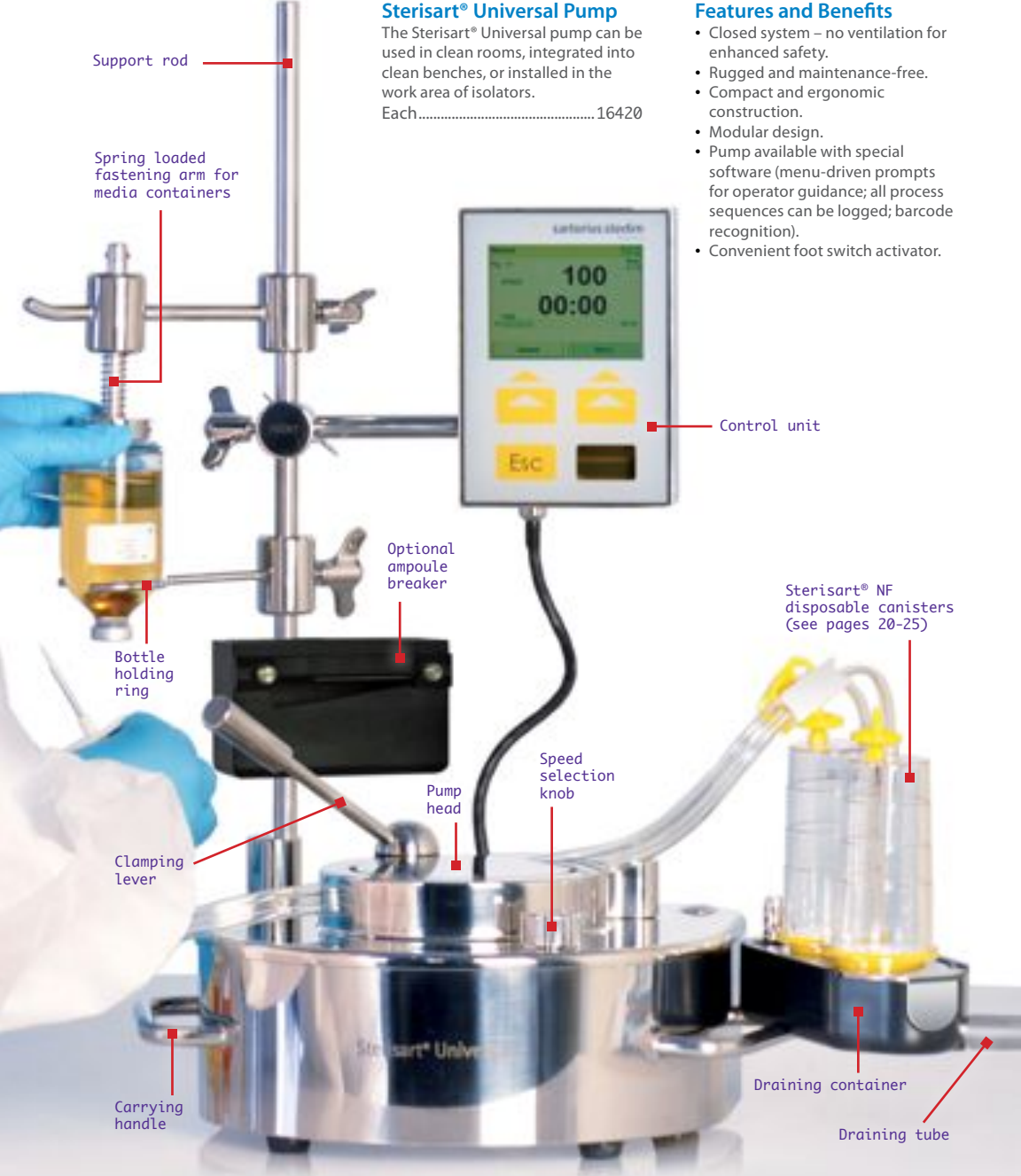


### Sterisart® Universal Pump

The Sterisart® Universal pump can be used in clean rooms, integrated into clean benches, or installed in the work area of isolators.  
Each..... 16420

### Features and Benefits

- Closed system – no ventilation for enhanced safety.
- Rugged and maintenance-free.
- Compact and ergonomic construction.
- Modular design.
- Pump available with special software (menu-driven prompts for operator guidance; all process sequences can be logged; barcode recognition).
- Convenient foot switch activator.



# Sterisart® NF Canisters

## for Sterility Testing

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

For sterility testing in isolators. Individually sterile, double-packaged, gamma irradiated, needles made of stainless steel.



Sterisart Canisters can be ordered with a needle port septum for sub-culturing of positive results.



Pre-installed color-coded tube clamps.



VHP resistant packaging.



*Disposable Sample Canisters and Adapter descriptions  
on pages 21-25*

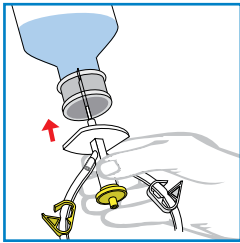
# Sterisart® NF Canisters are available with a variety of needles, depending on your sample type!

## Sterisart® NF Canister 16466

The 16466 is equipped with a stainless steel dual-needle spike (built in venting), which is designed for closed sample containers. The flammable spike allows changing sample containers, while minimizing the risk of contamination. Unlike plastic needles, metal needles do not snap off when tilted under pressure. Additionally, the large protective plate on the spike makes it easy to pierce the stoppers. The plate construction also helps prevent injury to fingers. The 4cm length dual-needle allows the spike to be used for a variety of closures.

**Application:** LVPs\* in closed glass containers with septum.

10/pk .....16466GBD  
 10/pk (septum version) .....16466GSD



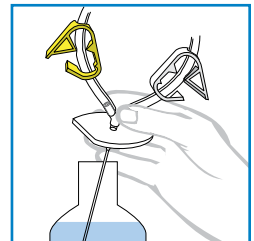
## Sterisart® NF Canister 16467

The 16467 is designed for use with open containers, such as ampoules or collapsible plastic bags that do not require venting when samples are removed. The thickness and length of the individual needle enables samples to be drawn even from exceptionally small ampoules with narrow openings. In addition, the length of the needle makes it easy to remove samples from plastic bags without piercing the bag itself. The stainless steel needle can be briefly flamed, minimizing the risk of contamination when changing sample containers.

**Application:** LVPs\* or SVPs\*\* in open containers, i.e. glass ampoules, glass vials, collapsible bags.

10/pk .....16467GBD  
 10/pk (septum version) .....16467GSD

\*Large Volume Parenterals  
 \*\* Small Volume Parenterals

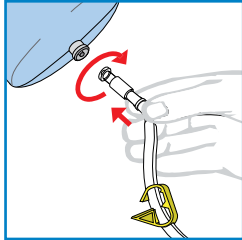


**Sterisart® NF Canister 16468**

The 16468 is equipped with a male luer connector onto which a detachable double female luer lock adapter is fitted. With this system, it is possible to draw samples from collapsible medical devices/bags fitted with either female luer lock or male luer lock connectors. After the sample is removed from the collapsible bag, the double luer lock adapter is disconnected and replaced by the supplied 6cm needle for drawing rinsing solution and culture media, a venting needle is included.

**Application:** Medical devices, i.e. tubing systems and bags with luer or luer lock connectors.

10/pk .....16468GBD

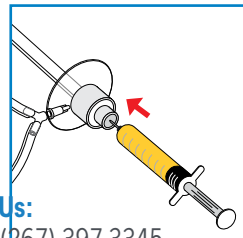


**Sterisart® NF Canister 16469**

The 16469 is designed for sterility testing liquids in pre-filled syringes of various sizes (versions with and without needles). The system allows the exterior of needles attached to syringes to be sterility tested. The special retainer on the double tubing system is used as an adapter for attaching pre-filled syringes. The contents of these syringes are drained into the Sterisart® system and simultaneously mixed with rinsing solution drawn through a dual-needle metal spike. The mixed liquid is pumped in equal volumes into the two Sterisart® containers and filtered.

**Application:** Pre-filled syringes with or without needles.

10/pk .....16469GBD  
 10/pk (septum version) .....16469GSD



**Contact Us:**

Phone 1 (267) 397-3345

E-mail [customerservice@agapilabsolutions.com](mailto:customerservice@agapilabsolutions.com)

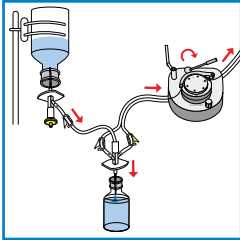
[www.agapilabsolutions.com](http://www.agapilabsolutions.com)

### Sterisart® NF Canister 16475

The 16475 is designed for sterility testing easy-to-dissolve powders (e.g. lyophilized antibiotics in powder form). A dual-needle metal spike with a vent filter is used to remove dilution solution from closed vials. A shorter dual-needle metal spike is used to add dilution solution and to dissolve the powder in the sample container (e.g. lyophilized antibiotic powder).

**Application:** Soluble powders, lyophilisates, and liquid antibiotics in closed glass vials with septum.

10/pk .....16475GBD  
 10/pk (septum version).....16475GSD

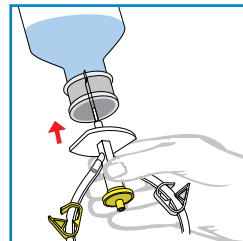


### Sterisart® NF Canister 16476

The 16476 is designed for sterility testing of closed, unvented sample containers. The 2.4cm long double-metal needle (built in venting) considerably reduces the dead volume, which can remain in the sample container during sampling. The resulting sample is pumped in equal volumes into the two Sterisart® containers and filtered. Unlike plastic needles, metal needles do not snap off when tilted under pressure. This benefit together with the large protective plate on the spike makes for easy stopper piercing and helps prevent injury to fingers by preventing breakage or slippage.

**Application:** SVPs\*\* in closed glass vials with septum.

10/pk .....16476GBD  
 10/pk (septum version) .....16476GSD

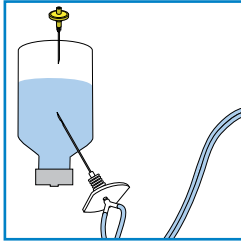


\*\* Small Volume Parenterals

### Sterisart® NF Canister 16477

The 16477 is designed for sterility testing of liquids in plastic containers. The unvented, non-coring needle with solid pointed tip and side opening minimizes clogging by particles when piercing the plastic container. The sample is pumped in equal volumes into the two Sterisart® containers and filtered. The enclosed venting needle guarantees venting of the container during sample transfers, rinsing procedures, and media transfers.

**Application:** LVPs\*, SVPs\*\*, and eye drops in closed plastic containers/vials, ampoules, or blow-fill-seal.  
 10/pk.....16477GBD



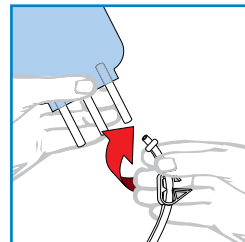
\*Large Volume Parenterals  
 \*\* Small Volume Parenterals



### Sterisart® NF Canister 16478

The 16478 is equipped with a dual-needle metal spike with a vent filter connected to the Sterisart® NF system by a single hose and Y-distributor. A second shorter hose is attached to the other end of the Y-distributor fitted with a female luer lock connector. Using this connector, it is possible to draw samples from collapsible medical devices like bags fitted with male luer lock connectors. The dual-needle metal spike with vent filter is used to transfer rinsing solutions and/or nutrient media from closed vials.

**Application:** Medical devices, i.e. containers/bags with male luer lock connectors.  
 10/pk.....16478GBD





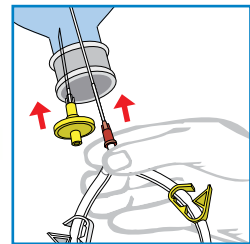
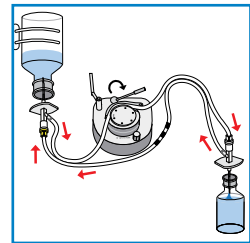


**Sterisart® NF Gamma Tubing System**

The 16470 is designed for dissolving and diluting powders with exceptionally low solubility. When used in combination with Sterisart® systems 16466 and 16467, the 16470 allows sterility testing of these powders in closed, unvented vials. The tubing system consists of a 3.6cm dual-needle metal spike (yellow color-coded) and a 2.3cm metal dual-needle spike, which are connected with each other by double tubing. Half the length of the double tubing is separated into single tubes identified by plastic ring sheaths.

**Application:** Difficult-to-dissolve powders in closed glass vials with septum (non- expanded).

10/pk .....16470GBD



**Sterisart® NF Venting Needle**

4cm, stainless steel, gamma irradiated.

**Application:** Sterile venting of containers with rinsing solution and nutrient media, e.g. ampoules, collapsible bags and vials.

50/pk .....16596HNC

# Combisart® Filter Station

## Membrane Filtration Manifolds

### Sterile, Vented, Individual and Multi-Branch Systems

The Combisart® system enables you to select the optimal hardware and consumables for your needs in microbiological analysis and quality assurance. At the heart of the Combisart® system is a high-grade stainless steel manifold designed to accommodate most types of filter holders and funnels.

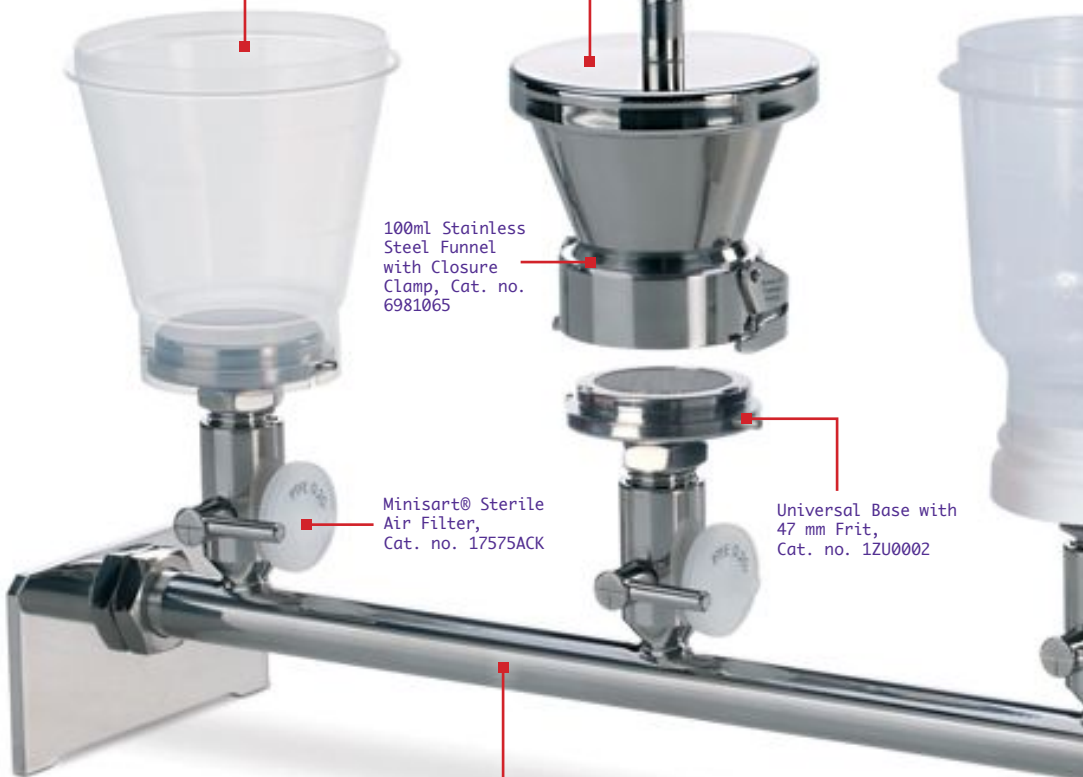
Biosart® 250ml Funnel  
(autoclavable),  
Cat. no. 1640725ACK

100ml Stainless Steel Funnel Lid,  
Cat. no. 6981063

100ml Stainless  
Steel Funnel  
with Closure  
Clamp, Cat. no.  
6981065

Minisart® Sterile  
Air Filter,  
Cat. no. 17575ACK

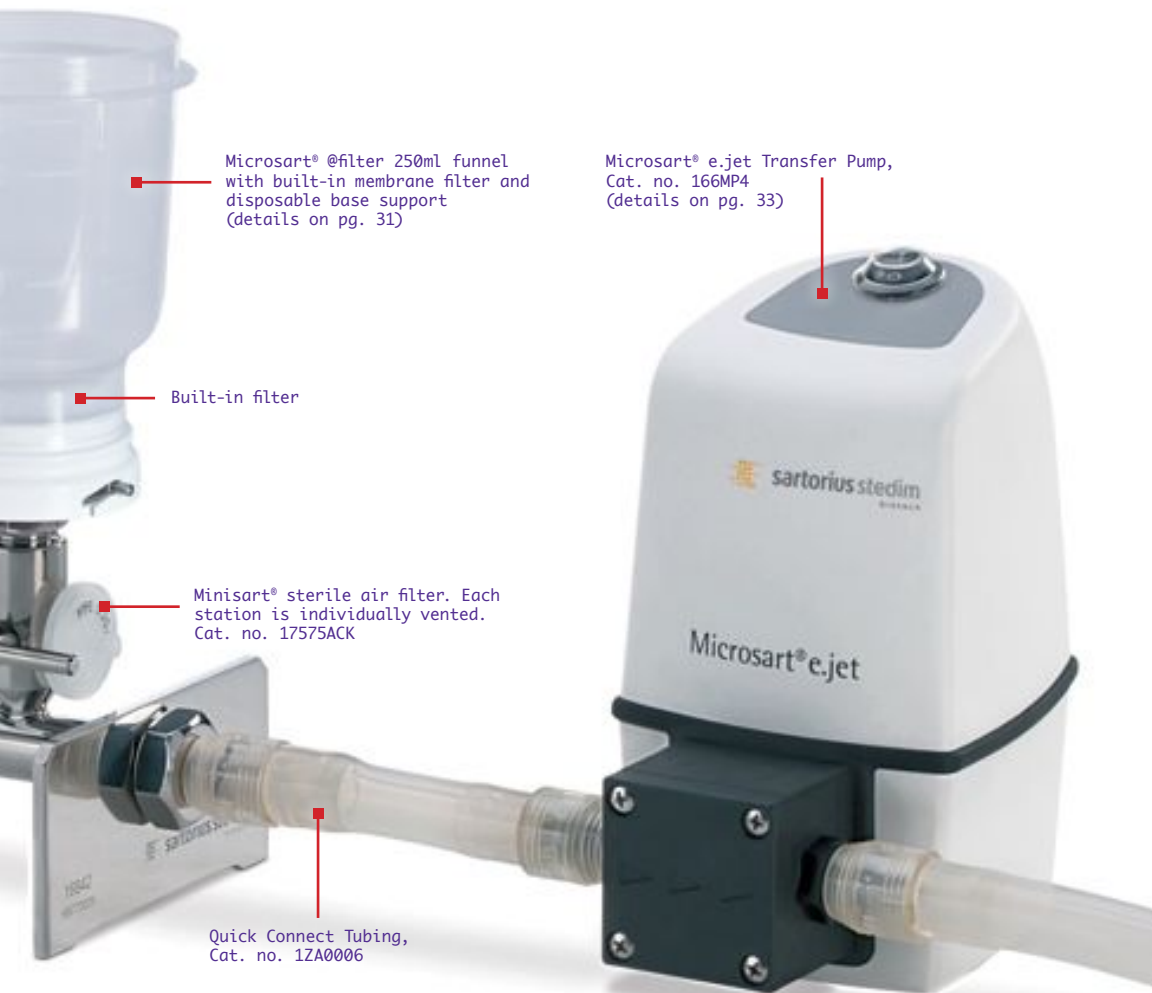
Universal Base with  
47 mm Frit,  
Cat. no. 1ZU0002



Description	Cat. no.
1-branch manifold	16844
Combi.jet™ 2-branch manifold	16848CJ
3-branch manifold	16842
6-branch manifold	16843

## Features and Benefits

- Each filter unit can be individually vented, ruling out secondary contamination of the underside of the filter
- Easy for left or right-handed users, because funnels can be positioned to suit the individual user.
- Quickly adapt your current equipment configuration to meet new requirements.
- Switch from reusable filter holders to disposable units without requiring new equipment.
- Base can be easily unscrewed exposing all areas of the manifold to autoclave.



### Microsart® Combi.jet 2-Branch Manifold

Combi.jet is a 2-branch stainless steel manifold for microbiological analysis. This manifold is specifically designed for use with the Microsart® e.jet pump. It can easily be connected and disassembled by the innovative quick connection coupling and nipples. It's compact size is perfect for small, clean bench work stations. Combi.jet requires two stainless steel universal bases, Cat. no. 1ZU0002, to attach different funnel systems. Each..... 16848CJ



Universal Base with  
47mm Frit,  
Cat. no. 1ZU0002

3 way valve

Quick-connect  
coupling

Sterile venting



e.jet Transfer Pump



Sterile venting

3 way valve

Rubber footing

## Features and Benefits

- Compact design, small footprint, ideal for pharmaceutical applications.
- Sterile venting with two stainless steel three-way valves (taps).
- Vacuum can be individually controlled for each filter holder.
- Each filter station can be vented separately.
- Easy to clean and sanitize.
- Smooth and reliable filtration functionality.
- No need for suction flasks or water traps.
- Made of high quality stainless steel.
- Accommodates various funnel types.

# Combisart® Stainless Steel Reusable Funnel System

For use with Combisart® Filter Station Manifolds



**Stainless Steel Lid for 100ml Funnel**

Each.....6981063



**Stainless Steel Lid for 500ml Funnel**

Each.....6981001



**Lid Seal for 100ml Stainless Steel Funnel**

Each.....6981064



**Lid Seal for 500ml Stainless Steel Funnel**

Each.....6981003



**100ml Stainless Steel Funnel with Closure Clamp**

Each.....6981065



**500ml Stainless Steel Funnel with Closure Clamp**

Each.....6981002



# Microsart® @filter Polypropylene Disposable Funnel System

For use with Combisart® Filter Station Manifolds

The Microsart® @filter System combines a sterile, ready-to-use funnel and a gridded membrane filter in one unit. The optimized design of Microsart® @filter permits thorough rinsing of the system subsequent to filtration with no liquid retained in the filter funnel. Specifically developed for the detection and enumeration of microorganisms from pharmaceutical products.

## Features and Benefits

- Ready-to-use.
- Sterile packed in bags.
- Built-in membrane filter reduces accidental contamination.
- Funnel and a gridded membrane filter in one unit.
- Marked graduations allow accurate sample volumes.

100ml volume, 47mm filter diameter, 0.45µm pore size, filter color: white with black grid.

60/pk..... 16D0110H6BL

100ml volume, 47mm filter diameter, 0.45µm pore size, filter color: green with dark green grid.

60/pk..... 16D021006BL

250ml volume, 47mm filter diameter, 0.45µm pore size, filter color: white with black grid.

60/pk..... 16D0125H6BK

250ml volume, 47mm filter diameter, 0.45µm pore size, filter color: green with dark green grid.

60/pk..... 16D022506BK

## Lid for Microsart® Funnels

For use with Microsart® and Microsart® @filter 100ml and 250ml funnels.

100/bx ..... 1ZSFK0007



250ml



100ml

Built-in membrane filter

## Microsart® Funnel Dispenser

For reliable removal of sterile Microsart® and Microsart® @filter 100ml and 250ml funnels.

Each..... 16A08



# Microsart® Polypropylene Disposable Funnels

For use with Combisart® Filter Station Manifolds

Microsart® Funnels are sterile plastic funnels that allow quick performance of filtrations required for routine testing of pharmaceutical products.

### Features and Benefits

- Reliable results – use a new, sterile funnel for each test for certain avoidance of cross contamination.
- Time-saving – just change the funnel, rather than spending time sanitizing it.
- Simple handling – no more holding hot funnels.
- Sterile-packed.
- Packaged in bags.

100ml volume, 100/bx .....16A0710N

250ml volume, 96/pk.....16A0725N

### Lid for Microsart® Funnels

For use with Microsart® and Microsart® @filter 100ml and 250ml funnels.

100/bx ..... 1Z5FK0007



250ml



100ml



### Microsart® Funnel Dispenser

For reliable removal of sterile Microsart® and Microsart® @filter 100ml and 250ml funnels. Each..... 16A08



# Microsart® e.jet Transfer Pump\* with Quick Connection

The Microsart® e.jet is a laboratory vacuum pump able to create sufficient vacuum filtration for transferring the filtered liquid directly to waste. This second generation of Microsart® e.jet achieves a better trans-membrane pressure and a higher flow rate. Provides constant flow rates and smooth and reliable filtration.

**Microsart® e.jet Pump**.....166MP4

**Quick Connect Silicone Tubing**  
for connecting manifold  
with e.jet pump .....1ZA0006



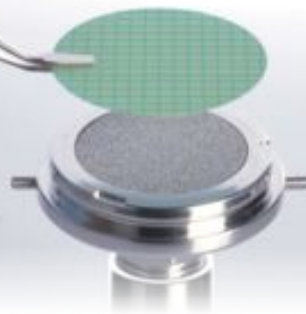
**Quick Connect Silicone Tubing**  
for connecting e.jet pump  
with receptacle flask.....1ZA5007



\*Suction for 1-3 stage manifolds only.

# Gridded Membrane Filters

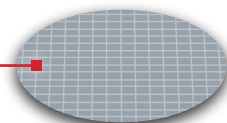
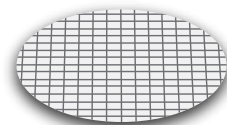
Cellulose nitrate (cellulose ester) membrane filters are offered in a choice of three different colors to suit your specific test application and provide a high-contrast background. For simple evaluation of the results, the grid divides the filtration area into 130 squares, each measuring 3.1mm x 3.1mm. The membrane filters are individually packaged and sterilized, and undergo stringent quality assurance testing. The certificate included in every package documents the quality assurance tests as well as the compliance of the 0.45µm membrane filter with ISO 7704. The special pore structure of the new 0.45µm high-flow membrane filters allow shorter filtration times due to higher flow rates and throughputs.



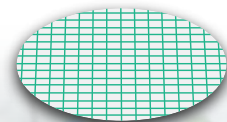
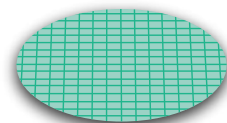
## Cellulose Nitrate (CN) Membrane Filter

Individually wrapped on single sheet, sterile packed, 47mm

Filter Color / Grid	Pore Size	Pack Size	Cat. no.
White black	0.45µm	100	1140647ACN
White black	0.45µm High-Flow	100	114H647ACN
Gray white	0.45µm	100	1300647ACN
Green dark green	0.45µm	100	1380647ACN
White green	0.45µm	100	1390647ACN
White green	0.45µm High-Flow	100	139H647ACN



Membrane turns black when wet.

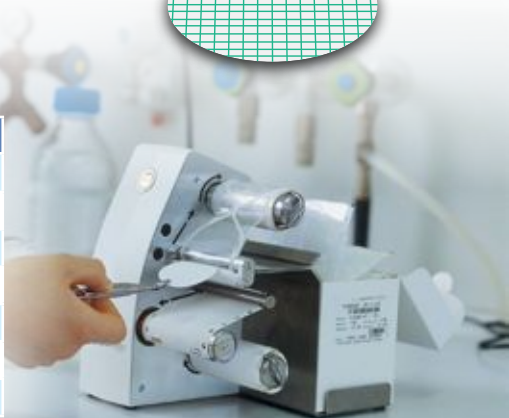


## Microsart® e.motion Membrane Filters

- For use with Microsart® e.motion, motion activated filter dispenser.
- Filters are individually sterile-sealed on a band.
- Special pleating and shape of sealing band around membrane filters ensures perfectly flat and uniform dispensing of individual filters.

Individually wrapped on pleated band, sterile packed, 47mm

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
Green dark green	0.45µm	300	13806Z47SCM
White green	0.45µm	300	13906Z47SCM
White green	0.45µm High-Flow	300	139H6Z47SCM



# Sterility Testing Accessories



## Microsart™ e.motion Membrane Filter Dispenser

The membrane filters are released from their sterile packaging automatically at the touch of a button or hands-free when the optical sensor detects approaching tweezers.

### Features and Benefits

- Sprocket feed roll technology for reliable filter dispensing.
- Specially developed controller prevents dispensing several filters at a time.
- Compact design allows quick and easy cleaning.
- Easy insertion of the filter band.
- Light weight.
- Optional pedal switch.

Microsart™ e.motion Dispenser .....	16712
Pedal Switch.....	1ZE0028

## LabFlame IR Loop Sterilizer, Bunsen Burner

LabFlame IR is optimized for use in microbiology laboratories.

- Rapid and precise ignition.
- One piece stainless steel housing, free of gaps or rims, easy to clean, fully UV resistant.
- Optimized air-flow system provides a uniform and constant flame, even in safety cabinets with horizontal or vertical air flow.
- Connectable to any kind of gas source.
- Automatically cuts gas supply after every flame extinguish and checks burner temperature.
- Hands-free operation with foot-switch or touch-free IR-sensor ignition.

Each..... LF8000000



## Tweezers, Stainless Steel

Membrane filters should only be handled with suitable tweezers in order to avoid contamination which can result from hand contact.

- Stainless steel tweezers can be flamed and are autoclavable.
- Blunt-edged tips for a careful, firm hold of the membrane filter.

Each..... 16625





# Agar Plates for Membrane Filtration

15x60mm Plates

## A8 Agar

For the selective isolation of *Mycoplasma hominis* and *Ureaplasma urealyticum*. 11ml fill.

10/pk ..... G02

## Corn Meal Agar with Tween®

For the cultivation of fungi. Induces chlamyospore formation by *Candida* spp. 13ml fill.

10/pk ..... G101

## m-PA Agar

For the cultivation and enumeration of *Pseudomonas aeruginosa* in water. 11ml fill.

10/pk ..... G133

## m-PA-C Agar

For the selective recovery and enumeration of *Pseudomonas aeruginosa* in water. 11ml fill.

10/pk ..... G150

## Nutrient Agar with MUG

For the detection and enumeration of *E. coli* in water. 11ml fill.

10/pk ..... G114

## PPLO Selective Agar

For the selective isolation of pleuralopneumonia-like organisms, especially *Mycoplasma pneumoniae*. 11ml fill.

10/pk ..... G04

## PPLO Selective Agar, TAAP

PPLO Selective Agar plus thallium acetate, amphotericin B, and penicillin G to prevent bacterial overgrowth. 11ml fill.

10/pk ..... G248

## Pseudomonas Isolation Agar

For the selective isolation of *Pseudomonas aeruginosa*. 11ml fill.

10/pk ..... G145

## R2A Agar

For the detection of heterotrophic bacteria in water. 11ml fill.

10/pk ..... G03

## Sabdex Agar with Gentamicin and Chloramphenicol

For the selective cultivation of fungi and dermatophytes. 12ml fill.

10/pk ..... G159

## Skim Milk Agar

For the cultivation and differentiation of microorganisms based on proteolytic activity. 11ml fill.

10/pk ..... G138

## SP4 Agar with Arginine

For the selective cultivation and differentiation of *Mycoplasma* species based on the ability to utilize arginine. 11ml fill.

10/pk ..... G32

## SP4 Agar with Glucose

For the selective cultivation and differentiation of the mycoplasmas; including *Mycoplasma hominis*, *Mycoplasma pneumoniae*, and *Ureaplasma urealyticum*. 11ml fill.

10/pk ..... G21

## Tryptic Soy Agar

For use as a general growth medium for the isolation and cultivation of microorganisms. 12ml fill.

10/pk ..... G151

## XLT-4 Agar

For the selective isolation of non-typhi *Salmonella* spp. 7ml fill.

10/pk ..... G277



# Growth Promotion Testing

Accuracy and traceability have never been easier or more affordable.



## EZ-Accu Shot™

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. For added convenience, individual peel-off informational labels are included for each strain.

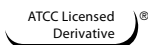
### EZ-Accu Shot™ *Select* kit includes:

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

### Buy EZ-Accu Shot™ organisms individually

<i>Aspergillus brasiliensis</i> ATCC® 16404™ *	0392A
<i>Bacillus cereus</i> ATCC® 10876™ *	0998A
<i>Bacillus subtilis</i> ssp. <i>spizizenii</i> ATCC® 6633™ *	0486A
<i>Candida albicans</i> ATCC® 10231™ *	0443A
<i>Clostridium sporogenes</i> ATCC® 11437™ *	0487A
<i>Clostridium sporogenes</i> ATCC® 19404™ *	0317A
<i>Enterococcus faecalis</i> ATCC® 29212™ *	0366A
<i>Escherichia coli</i> ATCC® 8739™ *	0483A
<i>Pseudomonas aeruginosa</i> ATCC® 9027™ *	0484A
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Typhimurium ATCC® 13311™ *	0421A
<i>Salmonella enterica</i> subsp. <i>enterica</i> NCTC 6017	0890A
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Typhimurium ATCC® 14028™ *	0363A
<i>Staphylococcus aureus</i> ATCC® 6538™ *	0485A

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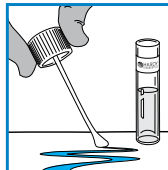
# Environmental Testing Swabs

## EnviroTrans™ Swab Kit (Pre-moistened, ready-to-use)

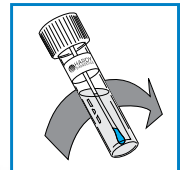
A ready-to-use swab and tube pre-filled with your choice of six solutions to fit your specific needs! The entire unit is terminally sterilized.

Collect and transport your environmental sample with efficiency and ease. Simply remove the cap, which is attached to the Dacron® swab. Collect your sample by swabbing the surface, recap, and send to the lab. Each EnviroTrans™ tube contains broth or buffer (see listing below). Excellent for detection or enumeration of microorganisms from environmental surfaces or equipment.

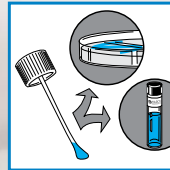
<b>D/E Neutralizing Broth</b>	
5ml, 20/box .....	SRK45
<b>NaCl with Na Thiosulfate</b>	
5ml, 20/box .....	SRK95
<b>Lethen Broth</b>	
5ml, 20/box .....	SRK25
<b>Neutralizing Buffer</b>	
2ml, 20/box .....	SRK20
5ml, 20/box .....	SRK15
<b>Neutralizing Saline</b>	
5ml, 20/box .....	SRK55
<b>Saline, 0.85%</b>	
0.5ml, 20/box.....	SRK05
2ml, 20/box.....	SRK30
5ml, 20/box .....	SRK35



1. Collect sample



2. Safely transport to the lab



3. Cultivate specimen



## 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.....	2588050PFB

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# Protective Gear

## Lab Coats and Aprons

### ComfortPRO™ Disposable Lab Coats

These affordable, disposable lab coats are made of tri-laminated material. 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 breast and one at each hip. Your choice of color: white or blue.

#### Blue, 30/case

Small .....	36103BS
Medium .....	36103BM
Large .....	36103BL
XLarge .....	36103BXL
XXLarge .....	36103BXXL

#### White, 30/case

Small .....	36103WS
Medium .....	36103WM
Large .....	36103WL
XLarge .....	36103WXL
XXLarge .....	36103WXXL



Free samples of ComfortPRO™ Disposable Lab Coats are available for evaluation.

### Lab Aprons

Personal protective apron made of 2.25mm polyethylene. Fluid proof, 43x59 inches.  
20/case .....8571



Splash Shield Full Shield, Cat. no. 4505 & N95 Particulate Respirator Mask, Cat. no. USP10206

## Face Shields

### Splash Shield

Splash Shield Full Shield, 24 per box.....	4505
Splash Shield Short Shield, 24 per box.....	4511

## Lab Mask Respirator

### 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



## Gloves

### PRECISION® Nitrile Gloves (Powder Free)

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

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to serve you better!

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Ultramicro | Micro



Analytical



Precision

