



AMPULE BREAKER

Reusable plastic ampule breaker.

A-150 10.00/ea



ALCOHOL BURNER

Glass alcohol burner with wick. Used for sterilization of forceps for coliform procedures. Cheaper and safer than a Bunsen burner.

A-250 9.00/ea

REPLACEMENT WICKS FOR ALCOHOL BURNER

Pack of 12. Enough for 10 lifetimes.

A-250A 5.00/pk

AUTOCLAVABLE BIO-HAZARD BAGS

Ideal for sterilizing used petri dishes from coliform testing prior to disposal. Bags are bright orange-red high density polyethylene with the biohazard symbol. Bags measure 8 1/2" x 11" and have one long flap for ease in opening. Bags have a sterilization indicator on the outside.

BB-333 15.45/pk of 100

BAG HOLDER FOR BB-333 BIO-HAZARD BAGS

BB-333H 23.30/ea

AUTOCLAVABLE CLEAR BAGS

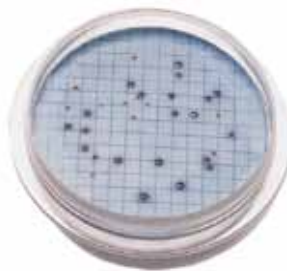
No printing on these bags. Measure 8" x 12" x 2 mil thick.

BB-812 41.60/pk of 100



FECAL COLIFORM BROTH			
M-FC BROTH without ROSOLIC ACID (Blue background)			
Pack Qty & Ampule Type	Manufacturer	NCL #	Price/pk
50/pk in plastic	(generic)	NCL-880	56.70
20/pk in wide-mouth glass	Hach	H-23732-20	21.00
50/pk in plastic	Hach	H-23732-50	63.00
M-FC BROTH with ROSOLIC ACID (Red/pink background)			
Pack Qty & Ampule Type	Manufacturer	NCL #	Price/pk
50/pk in plastic	(generic)	NCL-882	56.70
20/pk in wide-mouth glass	Hach	H-24285-20	22.80
50/pk in plastic	Hach	H-24285-50	63.00
50/pk in plastic	Millipore	BM-100	64.60
TOTAL COLIFORM BROTH			
MF-ENDO BROTH			
Pack Qty & Ampule Type	Manufacturer	NCL #	Price/pk
50/pk in plastic	(generic)	NCL-890	56.70
20/pk in wide-mouth glass	Hach	H-23735-20	21.00
50/pk in plastic	Hach	H-23735-50	63.00
TOTAL COLIFORM WITH CONFIRMATORY FOR E.COLI (m-ColiBlue24®)*			
Pack Qty & Ampule Type	Manufacturer	NCL #	Price/pk
20/pk in wide-mouth glass	Hach	H-26084-20	37.90
50/pk in plastic	Hach	H-26084-50	97.40
*Hach recommends FG-700 pads when using the two above products			

m-ColiBlue24® Broth simultaneously detects total coliforms and E. coli in just 24 hours.



E.Coli have dark ring around colony.



Order Toll Free 1.800.648.7836

www.nclabs.com

Which filters do I use for **Fecal** coliforms, and which do I use for **Total** coliforms?

According to the 21st edition of Standard Methods, Procedure 9222B (Total Coliform MF-Procedure) and Procedure 9222D (Fecal Coliform MF-Procedure): "Use only those membrane filters that have been found through adequate quality control testing and *certification by the manufacturer*, to exhibit full retention of the organisms to be cultivated" (emphasis added by us).

All of the manufacturers for the grid filters listed in this catalog said they have written statements that certify their filters conform to the requirements of Standard Methods. However, the certification does not mention any specific organisms. So apparently, they do not certify their filters specifically for fecal or total coliforms. Numerous telephone calls to each of them have not resulted in clarification of this question.

Millipore spokesmen stated that their type **HCWG** (pore size=0.7 µm, NCL# **FM-150**) is recommended for **fecal coliforms**, and that their type **HAWG** (pore size=0.45 µm, NCL# **FM-151**) is recommended for **total coliforms**. This runs contrary to the conventional wisdom of using the 0.45 µm pore size for fecal coliforms, but Millipore has confirmed this on several occasions. We do not have this in writing.

The other manufacturers have informed us verbally that their grid filters are acceptable for both fecal and total coliforms, but will not state this in writing.

All filters listed on this page are white with black grids, 47 mm diameter, sterile.

Following is a list of grid filters which we stock. The main differences are in packaging, and whether pads are included. Note: "HPG" is our abbreviation for Hach-Pall-Gelman. We really don't know what else to call them.

GRID FILTERS ONLY (NO PADS)					
Manufacturer	Manufacturer #	Pore Size	Description	NCL#	Price
HPG	66278	0.45 µm	Individually wrapped, sterile	FG-690	85.00/pk of 200
HPG	66068	0.45 µm		FG-690B	325.00/cs of 1000
Millipore	HCWG	0.70 µm		FM-150	72.00/pk of 150
Millipore	HCWG	0.70 µm		FM-150B	242.40/cs of 600
Millipore	HAWG	0.45 µm		FM-151	63.00/pk of 150
Millipore	HAWG	0.45 µm		FM-151B	212.10/cs of 600
MFS	A045	0.45 µm		FM-454A	44.05/pk of 100
MFS	A045	0.45 µm		FM-454B	243.25/cs of 1000
GRID FILTERS WITH PADS					
Manufacturer	Manufacturer #	Pore Size	Description	NCL#	Price
HPG	63077	0.45 µm	10 bags, each containing 10 filters & 10 pads	FG-680	90.80/pk of 100
Whatman	7141-104	0.45 µm	100 individual bags, each containing one filter & one pad	FW-999	68.20/pk of 100



PETRI DISHES (DISPOSABLE)

Note: All petri dishes listed on this page are approximately 50 mm in diameter, and are designed to hold 47 mm diameter filters and pads. Another mystery solved.

Most people consider petri dishes to be a "generic" commodity. That is, all petri dishes are pretty much equivalent, and choices between various brands are a matter of personal preference.

There are many packaging choices with petri dishes, grid filters, and pads (You can get petri dishes with or without pads, grid filters with or without pads, or all three separately). Our recommendation is to get the petri dishes preloaded with pads, and to get the grid filters individually wrapped and sterile. This usually turns out to be the cheapest alternative, plus, chances of accidental contamination are reduced because you don't have to handle the pad. Again, this is a matter of personal preference.

PETRI DISHES WITH PADS, 50 MM Sterile dishes pre-loaded with 47 mm pads.		
Manufacturer	NCL#	Price
Millipore	PM-150	65.55/pk of 150
MFS	PS-100	33.95/pk of 100
Millipore	PM-150A	197.60/cs of 600
MFS	PS-100A	152.65/cs of 500
PETRI DISHES WITHOUT PADS, 50 MM Sterile dishes - NO pads.		
Manufacturer	NCL#	Price
Millipore	PM-151	51.30/pk of 150
MFS	PS-101	29.85/pk of 100
Millipore	PM-151A	151.05/cs of 600
MFS	PS-101A	134.40/cs of 500



ABSORBENT PAD KIT Pads only for 47 to 50 mm petri dishes.		
Description	NCL #	Price
Case of 1000 with dispenser	FG-700	170.65/cs
Pack of 100 (no dispenser)	FG-700B	21.00/pk
Dispenser only	FG-700C	3.00/ea



DISPOSABLE FILTER FUNNELS WITH RECEIVER BASE

Sterile, individually wrapped, 150 ml graduated filter funnel with receiver. Includes 47 mm membrane filter. After filtering the sample, upper section twists off for easy removal of membrane filter. For use in coliform determinations where autoclaving is not an option.

Pore Size	Membrane	NCL #	Price/cs
0.2 µm	Plain	FN-120	490.80/72
0.45 µm	Grided	FN-130	490.80/72



DISPOSABLE FILTER FUNNELS

Sterile, individually wrapped graduated funnel with 47 mm, 0.45 µm, grided membrane filter. Each case includes 50 funnels and 6 funnel adapters (for use with NCL# R-777, rubber stopper). After filtering the sample, upper section twists off for easy removal of membrane filter.

Funnel Size	NCL #	Price/cs
100 ml	FN-145A	208.00
250 ml	FN-145B	229.20

SEE ALSO FILTER FUNNELS IN FUNNEL SECTION

STERILE COLIFORM SAMPLE CONTAINERS WITH THIO TABLET

Plastic sterile 100 ml sample containers. Each contains a Sodium Thiosulfate tablet to neutralize chlorine.

BC-170 **63.55/cs of 100**

STERILE COLIFORM SAMPLE CONTAINERS

Same as the above, but without Sodium Thiosulfate tablet.

BC-171 **61.55/cs of 100**



SODIUM THIOSULFATE TABLETS

Tablet is sufficient to dechlorinate 100 ml of sample prior to coliform testing.

S-67T-1000 **25.75/pk of 1000**

SPECIMEN CUP

4.5 oz specimen cup with screw-on lid. Graduated in ounces and milliliters. Clear polypropylene walls, autoclavable. Write on area for identification.

SC-460 **82.60/bulk packed cs of 500**

SC-464 **53.90/individually wrapped, sterile cs of 100**



FILTER FORCEPS

Blunt end stainless steel with polypropylene finger grips.

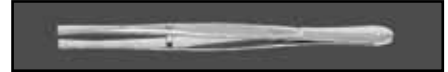
TG-511 6.00/ea



TWEEZERS, 4"

Stainless steel forceps with blunt ends. Ideal for picking up fecal coliform and TSS filters.

T-799 5.25/ea



HAND TALLY COUNTER

Four digit unit records up to 9999. Useful for counting colonies.

TC-500 13.85/ea



BUFFERED DILUTION WATER

Sterile, buffered dilution water for coliform tests. Each bottle contains 99 ml of the correct amount of phosphate buffer and magnesium chloride solution required for fecal coliform testing. Each case contains 66 individually sterilized and sealed bottles.

B-55R 75.00/cs

INOCULATION LOOP

3 mm NiChrome loop with aluminum handle.

**IL-101 11.70/ea
58.45/pk of 5**



DISPOSABLE PETRI DISHES

100x15 mm sterile polystyrene stackable petri dishes with triple vented lid. Recommended for microbiology use.

P-200 89.00/cs of 500



READYCULT: QUALITATIVE TEST FOR E. COLI IN DRINKING WATER

EPA-Approved for drinking water. Not approved for wastewater as of the date of this publication.

Process is as follows:

1. Add 100 ml sample to sterile sample bottle. Sterile sample bottles are available with and without Sodium Thiosulfate tablet.
2. Add one ReadyCult® Snap Pack to sample in bottle and mix.
3. Incubate for 24 hours at 34.5 to 37°C.
4. If no color change, the test is negative. Any color change to blue-green confirms presence of total coliforms.
5. Expose to UV light. A light blue fluorescence indicates the presence of E. Coli.
6. Add 3 drops of Indole Reagent. Formation of a red ring at the sample surface within 20 seconds confirms the presence of E. Coli.

Sterile bottle (without Sodium Thio tablet)

NR-120

82.00/cs of 100

Sterile bottle (with Sodium Thio tablet)

NR-122

82.00/cs of 100

Readycult

NR-100

90.75/pk of 20

Indole reagent

NR-99

25.50/30 ml dropper btl





COLIFORM BROTH



Type	Quantity	NCL #	Price/pk
M-FC BROTH without ROSOLIC ACID (Blue background)	50	NCL-880	56.70
M-FC BROTH with ROSOLIC ACID (red/pink background)	50	NCL-882	56.70
MF-ENDO BROTH	50	NCL-890	56.70



BROTH & COLIFORM SUPPLIES

COLIFORMS			
Description	Quantity	NCL #	Price/pk
Brilliant Green Bile Broth Tubes	15/pk	H-322-15	30.25
EC Medium MPN Tubes	15/pk	H-14104-15	30.25
Dechlorinating Reagent PP	100/pk	H-14363-69	16.90
Gelman Petri Dishes with Pad	100/pk	H-14717-99	51.70
Lauryl Tryptose Ampules, 2 ml	20/pk	H-14725-20	10.50
Petri Dish	100/pk	H-14852-99	48.00
Dilution water concentrate PP for fecals	2 x 25/pk	H-21431-66	28.70
Lauryl Tryptose Broth Tubes	15/pk	H-21623-15	30.25
EC Medium w/ Durham Tubes	15/pk	H-22824-15	30.25
P/A broth, disp, prefilled, sterile	12/pk	H-23232-12	43.60
P/A broth, disp, prefilled, sterile	50/pk	H-23232-50	165.00
M-FC Broth in PourRite™ ampules	20/pk	H-23732-20	21.00
M-FC Broth in plastic ampules	50/pk	H-23732-50	63.00
MF-ENDO Broth in PourRite™ ampules	20/pk	H-23735-20	21.00
MF-ENDO Broth in plastic ampules	50/pk	H-23735-50	63.00
M-FC Broth with Rosolic Acid in PourRite™ ampules	20/pk	H-24285-20	22.80
M-FC Broth with Rosolic Acid in plastic ampules	50/pk	H-24285-50	63.00
Nutrient agar w/ MUG	6/pk	H-24373-06	42.50
P/A broth ampules single dose, sterile, 2 ml	25/pk	H-24949-25	60.60
P/A broth with MUG, single dose, 2 ml ampules	25/pk	H-24955-25	80.00
m-tec agar	6/pk	H-25611-06	49.15
m-ColiBlue-24® Broth Ampules in PourRite™ ampules*	20/pk	H-26084-20	37.90
m-ColiBlue-24® Broth Ampules in plastic ampules*	50/pk	H-26084-50	97.40
*Hach recommends FG-700 pads when using above products			
m-tec agar plates, modified	15/pk	H-28118-15	81.80
m-HPC Broth Plastic Ampules	50/pk	H-28124-50	83.50
Tryptic Soy Broth Ampules	50/pk	H-28126-50	78.75

PRESENCE/ABSENCE BROTH IN STERILE SAMPLE BOTTLES, (WITH MARK AT 100 ML)

Without MUG

P/A broth, disp, prefilled, sterile	H-23232-12	12/pk	43.60/pk
P/A broth, disp, prefilled, sterile	H-23232-50	50/pk	165.00/pk

With MUG

P/A broth, disp, prefilled, sterile, with MUG	H-24016-12	12/pk	48.40/pk
P/A broth, disp, prefilled, sterile, with MUG	H-24016-50	50/pk	207.00/pk

COLIFORM SAMPLE BOTTLES (NO THIO)

Plastic disposable sterilized 175 ml bottle with cap	H-24950-12	12/pk	33.00/pk
Plastic disposable sterilized 175 ml bottle with cap	H-24950-50	50/pk	112.85/pk

DECHLORINATING COLIFORM SAMPLE BOTTLES (WITH SODIUM THIOSULFATE)

Plast disp sterilized 175 ml bottle with cap, DECHLORINATING	H-25991-12	12/pk	48.10/pk
Plast disp sterilized 175 ml bottle with cap, DECHLORINATING	H-25991-50	50/pk	120.50/pk