

SEYCHELLES

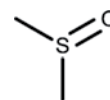
The Seychelles has the largest percentage of land under conservation of any country—just about 50 percent of the island nation is preserved. About 300 miles of amazingly pristine beaches with powder-soft sand line the islands, but relatively few visitors get there. The islands are home to species such as the Giant Tortoise and the national bird, the Seychelles Black Parrot. *Source: Our Amazing Planet.* The giant tortoise, the largest reptile on earth, grows to around 4 feet in length, can weigh nearly 500 pounds and lives for longer than 100 years. Today, there are about 15,000 giant tortoises inhabiting the Galapagos Archipelago and the Seychelles. *Source: National Geographic and Galapagos Tortoise Movement Ecology Programme.*

cell culture & histology

START PURE.
TRUST THE RESPONSE.

MEDIA	358–371
Components & Supplements	358
Microbiological Media	366
Freezing Media	371
STAINS	372–374
Cell Viability	372
Gram Stain	374
INDUCTION & SELECTION	375–381
Antibiotics	375
Induction Supplements	381
HISTOLOGY	382–385
HistoChoice®	382

Dimethyl Sulfoxide (DMSO)



AMRESCO offers ultrapure DMSO for use in cell culture applications.

- Quality >99.9% pure
- Easy-to-use—each pack contains 5 x 10 ml tubes
- Sterile tested

PRODUCT DESCRIPTION	CODE
Dimethyl Sulfoxide (DMSO) Ultrapure	N182-5X10ML

Amino Acid Supplements

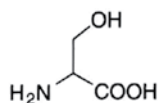
AMRESCO offers high purity protein digests used for media supplements.

PRODUCT DESCRIPTION	CODE
Peptone 140 (Soytone) Hydrolysate digest of soybean.	J849-500G J849-1KG
Peptone An enzymatic digestion of protein.	J636-100G J636-500G J636-1KG
Soy Peptone, Animal-free, GMO-free A papaic/pancreatic digest of defatted soybean.	N454-100G N454-500G
Tryptone A pancreatic digest of casein.	J859-100G J859-500G J859-1KG
Casamino Acids Acid hydrolyzed casein containing low concentration of sodium chloride and iron.	J851-100G J851-500G J851-1KG

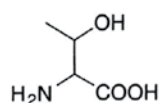


Polar/Neutral Amino Acids

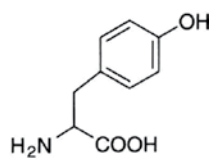
PRODUCT DESCRIPTION	CODE
L-Serine	1B1103-25G
	1B1103-100G
	1B1103-500G
L-Threonine	E808-25G
	E808-100G
	E808-500G
L-Tyrosine	E821-25G
	E821-100G
	E821-500G
L-Cysteine	N554-100G
L-Asparagine	94341-100G
	94341-500G
L-Glutamine	0374-500G
	0374-1KG



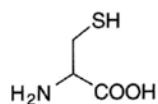
Serine (Ser, S)
MW: 87.08, pK_a ~ 16



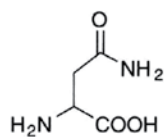
Threonine (Thr, T)
MW: 101.11, pK_a ~ 16



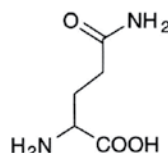
Tyrosine (Tyr, Y)
MW: 163.18



Cysteine (Cys, C)
MW: 103.15, pK_a = 8.35



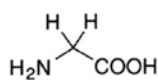
Asparagine (Asn, N)
MW: 114.11



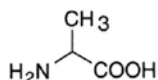
Glutamine (Gln, Q)
MW: 128.14

Hydrophobic Amino Acids

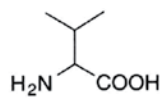
PRODUCT DESCRIPTION	CODE
L-Glycine	0167-1KG
	0167-5KG
	0167-10KG
	0167-12KG
	0167-50KG
L-Alanine	0106-100G
	0106-250G
	0106-500G
L-Valine	1B1102-25G
	1B1102-100G
	1B1102-500G
L-Leucine	E811-25G
	E811-100G
	E811-250G
L-Isoleucine	E803-25G
	E803-100G
L-Phenylalanine	0991-25G
	0991-100G
	0991-500G
L-Proline	E812-25G
	E812-100G
	E812-500G
L-Tryptophan	E800-25G
	E800-100G
	E800-500G
L-Methionine	E801-25G
	E801-100G
	E801-500G



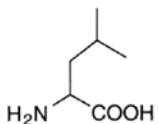
Glycine (Gly, G)
MW: 57.05



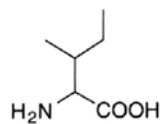
Alanine (Ala, A)
MW: 71.09



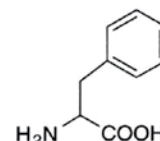
Valine (Val, V)
MW: 99.14



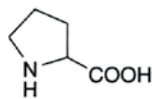
Leucine (Leu, L)
MW: 113.16



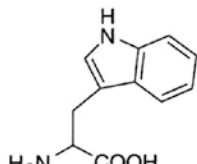
Isoleucine (Ile, I)
MW: 113.16



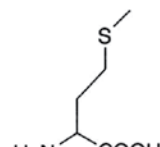
Phenylalanine (Phe, F)
MW: 147.18



Proline (Pro, P)
MW: 97.12



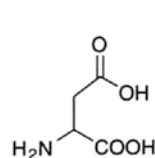
Tryptophan (Trp, W)
MW: 186.21



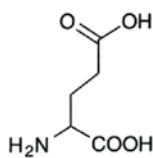
Methionine (Met, M)
MW: 131.19

Charged Amino Acids

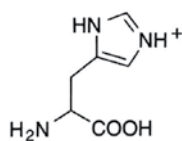
PRODUCT DESCRIPTION	CODE
L-Aspartic Acid	0192-500G
	0192-1KG
L-Glutamic Acid	0421-1KG
	0421-2.5KG
L-Histidine	E806-25G
	E806-100G
	E806-500G
L-Lysine	0437-100G
	0437-500G
L-Arginine	0877-100G
	0877-500G



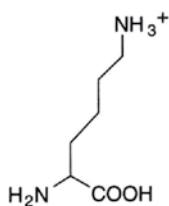
Aspartic Acid (Asp, D)
MW: 115.09, pK_a = 3.9



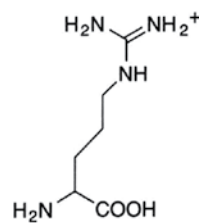
Glutamic Acid (Glu, E)
MW: 129.12, pK_a = 4.07



Histidine (His, H)
MW: 137.14, pK_a = 6.04



Lysine (Lys, K)
MW: 128.17, pK_a = 10.79



Arginine (Arg, R)
MW: 156.19, pK_a = 12.48

Phosphate Buffered Saline (PBS)

- Unsurpassed quality makes these buffers ideal for cell culture applications
- Convenient options including sterile, powdered, liquid and tablet form
- Suitable for flow cytometry analysis

PRODUCT DESCRIPTION	CODE
Phosphate Buffered Saline (PBS) 1X Solution, Dulbecco's Formulation, USP Sterile	K812-500ML K812-20L
Phosphate Buffered Saline (PBS) 10X Solution, Dulbecco's Formulation, USP Sterile	K813-500ML
Phosphate Buffered Saline (PBS) 1X Solution, Sterile, pH 7.4	E504-100ML E504-500ML
Phosphate Buffered Saline (PBS), Tablets Each tablet prepares 100 ml of a 1X solution.	E404-100TABS E404-200TABS
Phosphate Buffered Saline (PBS), 10X Liquid Concentrate	J373-4L
Phosphate Buffered Saline (PBS), 20X Liquid Concentrate	E703-500ML E703-1L
Phosphate Buffered Saline (PBS), Ready-Pack™ 10X when contents of a single pack is dissolved in 1 L of water.	0780-2PK
Phosphate Buffered Saline (PBS), Powder 1X solution when 9.88 g is dissolved in 1 L of water.	0780-10L 0780-50L
Phosphate Buffered Saline (PBS), with 0.05% Tween® 20, 1X Solution	E715-500ML E715-1L



Tris Buffered Saline (TBS)

- Ideal for cell culture applications
- Convenient options including powdered, liquid and tablet form

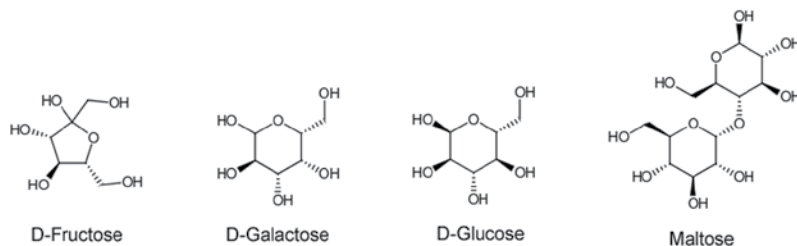


PRODUCT DESCRIPTION	CODE
Tris Buffered Saline (TBS), 20X A 1X solution contains 140 mM Sodium Chloride, 3.0 mM Potassium Chloride and 25 mM Tris.	J640-4L
Tris Buffered Saline (TBS), Ready-Pack™ Each Ready-Pack™ prepares 1 liter of a 20X solution of Tris Buffered Saline when dissolved in water. A 1X solution contains 25mM Tris, 140mM Sodium Chloride, and 3.0mM Potassium Chloride.	0788-2PK
Tris Buffered Saline (TBS), Tablets Each tablet prepares 100 ml of a 1X solution. A 1X solution contains 140 mM Sodium Chloride, 3.0 mM Potassium Chloride and 25 mM Tris.	K859-100TABS K859-200TABS
TBS / Tween® 20 Blot Wash Buffer, 20X A 1X solution contains 20 mM Tris, 150 mM Sodium Chloride, and 0.05% Tween.	K873-500ML

Sugars

AMRESCO offers high purity sugars used for media supplements.

PRODUCT DESCRIPTION	CODE
D-Fructose	0226-1KG 0226-2.5KG 0226-5KG 0226-12KG 0226-50KG
D (+) Galactose	0637-100G 0637-250G 0637-500G
D-Glucose Anhydrous	0188-500G 0188-1KG 0188-2.5KG 0188-5KG 0188-12KG 0188-50KG
Glucose, 20% Sterile Solution	E545-100ML
Maltose Monohydrate	1B1184-100G 1B1184-500G 1B1184-1KG



Agar, Bacteriological

A solidifying agent typically used at concentrations of 1–2% in solid media preparations.



PRODUCT DESCRIPTION	CODE
Agar, Bacteriological	J637-500G
	J637-1KG
	J637-2.5KG

Media Extracts

AMRESCO offers high purity extracts used for media supplements.

PRODUCT DESCRIPTION	CODE
Beef Extract	0114-50G
A dried replacement for infusions of meat.	0114-100G
	0114-500G
Malt Extract	J873-100G
Used for the preparation of media for the detection of yeasts and molds.	J873-500G
	J873-1KG
Yeast Extract	J850-100G
The water soluble portion of autolyzed yeast containing a source of Vitamin B complex.	J850-500G
	J850-1KG
	J850-5KG
	J850-10KG

Sterile Salt Solutions

AMRESCO offers sterile salt solutions for common cell culture procedures.

PRODUCT DESCRIPTION	CODE
Calcium Chloride, 1 M Sterile Solution	E506-100ML
	E506-500ML
Magnesium Chloride, 1 M Sterile Solution	E525-100ML
	E525-500ML
Sodium Chloride, 5 M Sterile Solution	E529-100ML
	E529-500ML



Yeast Nitrogen Base

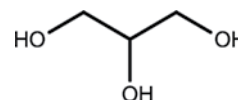
Yeast Nitrogen Base (YNB) is a base medium for preparation of minimal and synthetic defined yeast media. Yeast Nitrogen Base is a suitable medium for studying strains of yeast that require certain vitamins. AMRESCO offers YNB with or without ammonium sulfate for the classification of yeast.

- High purity components for media preparation

PRODUCT DESCRIPTION	CODE
Yeast Nitrogen Base without Amino Acids	J386-100G J386-500G
Used for yeast classification based on amino acid and carbohydrate requirements.	
Yeast Nitrogen Base without Amino Acids and Ammonium Sulfate	J630-100G J630-500G
Used for yeast classification based on carbon and nitrogen requirements.	

Glycerol, 20% Sterile Solution

AMRESCO offers a sterile 20% glycerol solution which is often used as a cryopreservative in bacterial preservation media and is used in cell culture applications.



PRODUCT DESCRIPTION	CODE
Glycerol, 20% Sterile Solution	E550-100ML

ZYP-5052, Autoinduction Media

AMRESCO's ZYP-5052, Autoinduction Media is formulated with quality biochemicals to ensure consistent growth and protein expression using methodology developed by Dr. Studier at Brookhaven National Laboratory. ZYP-5052, Autoinduction Media activates recombinant protein expression in *E. coli* through diauxic growth, with the first growth phase producing a high density bacterial culture. During the second phase, *lac* promoters are activated and result in induction of prolific transcription and translation of the cloned DNA. A significant percentage of the total cell protein becomes comprised of recombinant DNA, which can then be isolated and purified for downstream applications.



A protein expression protocol using ZYP-5052, Autoinduction Media is more efficient than conventional methods for both high throughput and routine protein expression, because it eliminates the need to monitor cell density and the manual addition of IPTG for induction. An additional benefit of using ZYP-5052, Autoinduction Media is improved protein yield compared to the yield achieved by a conventional growth and induction method.

- No monitoring cell density
- Automatic induction of protein expression
- High protein yield

PRODUCT DESCRIPTION	CODE
ZYP-5052, Autoinduction Media	N990-1L

Rich Premixed *E. coli* Media

Culturing bacteria is an important area in genetic and molecular biology research. Researchers need a variety of microbiological growth media that will support organisms in an efficient and productive manner. Selecting the media that will best serve the necessary requirements will allow an increase in both the bacterial yield and DNA expression.

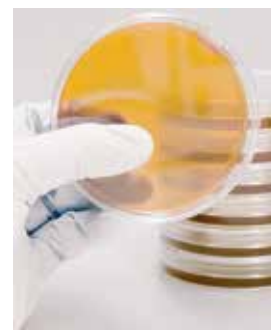
- Save time using premixed and ready-to-use media
- Homogenous and high quality media

PRODUCT DESCRIPTION	CODE
SOB Broth Premixed powder.	J906-100G J906-500G
SOC Media Premixed powder.	N549-6x5ML N549-100ML
Terrific Broth Premixed powder.	J869-100G J869-500G J869-5KG
Terrific Broth, Liquid Premixed liquid.	1B1494-1L
TYGPN Medium Broth Premixed powder. Contains large quantities of tryptone and yeast extract.	J905-500G

Premixed LB Media

Lysogeny broth (LB) is a nutritionally rich medium used for the growth of bacteria. LB continues to be one of the most common media used for maintaining and cultivating recombinant strains of *Escherichia coli*. AMRESCO offers LB in premixed Miller or Lennox formulations. Additionally, AMRESCO offers Ready-Pack™ pouches of LB, which prepare 1 liter of media.

- Save time using premixed and ready-to-use media
- Homogenous and high quality media



Animal-free LB Media

All components of AMRESCO's animal-free LB Media are derived from non-animal origins and have been extensively tested to ensure that growth matches or exceeds that in media containing peptones from conventional animal sources. Supplied as a convenient, premixed powder, animal-free LB media is a general purpose media for the growth of non-fastidious microorganisms. It may also be used as a base for enriched media when supplemented with additional growth requirements.

- Superior performance—bacterial growth curves match or exceed those obtained in conventional media
- Safer—animal-free peptone derived from soy meal
- Convenient—each package prepares one liter of media

PRODUCT DESCRIPTION	CODE
LB Agar Miller Formulation. Premixed powder in a convenient Ready-Pack™ pouch.	J104-10PK
LB Agar Miller Formulation. Premixed powder.	J104-1KG
LB Agar Lennox Formulation. Premixed powder in a convenient Ready-Pack™ pouch.	K497-10PK
LB Broth, Ready-Pack™ Miller Formulation. Premixed powder.	J106-10PK
LB Broth Miller Formulation. Premixed powder.	J106-500G J106-1KG J106-2KG
LB Broth Lennox Formulation. Premixed powder.	K488-10PK
LB Powder, Non-Animal Premixed powder.	N526-5PK
LB Broth, Liquid Premixed liquid solution.	J833-1L

Premixed Media for Bacteriophage Propagation/Maintenance

The use of lambda bacteriophage as a model organism has played a central role in defining the current concepts of gene regulation and gene circuitry. Additionally lambda bacteriophage has provided researchers with a bevy of useful tools for molecular biology. The applications range from cloning of recombinant DNA to the use of its site-specific recombinase. Another well studied bacteriophage, the M13 bacteriophage has been used in molecular biology for cloning of recombinant DNA, Sanger sequencing, and site-directed mutagenesis. AMRESCO offers several premixed media for the propagation of lambda bacteriophage and the maintenance of M13 bacteriophage in *Escherichia coli*.

- Save time using premixed and ready-to-use media
- Homogenous and high quality powders

PRODUCT DESCRIPTION	CODE
NZ-Amine A	J853-250G
A rich source of high quality amino acids and peptides for lambda propagation.	J853-500G J853-1KG
NZCYM Broth	J865-500G
Media for lambda propagation.	
NZM Broth	J867-100G
Media for lambda propagation. (NZCYM w/o casamino acids and yeast extract).	
NZYM Broth	J866-100G J866-500G
Superbroth	J868-100G J868-500G
M9 Medium Broth	J863-100G J863-500G
2XYT Medium Broth	J902-100G J902-500G

Minimal Premixed *E. coli* Media

Culture of bacteria is an important area in genetic and molecular biology research. Researchers need a variety of microbiological growth media that will support organisms in an efficient and productive manner. Selecting the media that will best serve the necessary requirements will allow an increase in both the bacterial yield and DNA expression.

- Save time using premixed and ready-to-use media
- Homogenous and high quality powders



PRODUCT DESCRIPTION	CODE
H Medium Broth	J908-500G
M63 Medium Broth	J910-100G J910-500G
M9CA Medium Broth Supplemented with casamino acids.	J864-100G
Tryptone Broth	J870-100G J870-500G

Premixed Yeast Media

For researchers working with yeast, AMRESCO offers two of the most common yeast media (YM and YPD) in premixed powder and liquid forms.

- Save time using premixed and ready-to-use media
- Homogenous and high quality powders media

PRODUCT DESCRIPTION	CODE
YPD Broth	J903-100G J903-500G
YM Medium Broth Premixed powder.	J904-100G J904-500G
YPD Broth, Liquid Premixed liquid.	1B1493-1L

Bacterial Freezing Media

AMRESCO offers high purity, bacterial freezing media. The media contains 0.5 ml of LB broth (Miller) with 30% glycerol per tube. Simply add 1 ml of saturated culture to the vial, vortex, and store at -70°C .

- 85% post-thaw viability of frozen cultures
- Easy-to-label vials
- 25 x 2 ml cryotubes in convenient storage box



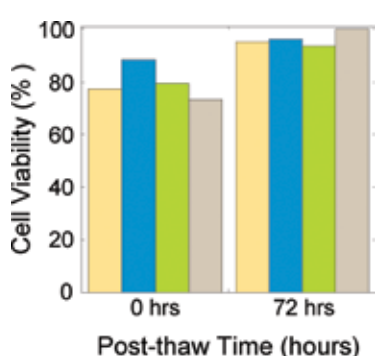
PRODUCT DESCRIPTION	CODE
Freezing Media	N400-25PK

SeraFree™ Cryopreservation Media

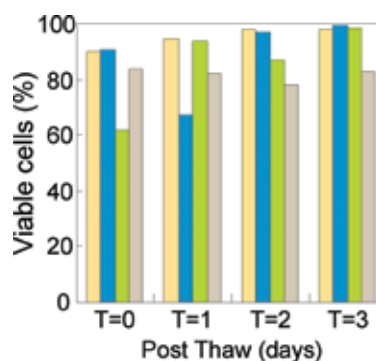
SeraFree™ Cryopreservation Media is a ready-to-use freezing media for cryopreservation of adherent or suspension cultured cells. The animal-free RPMI or DMEM based media composition eliminates batch-to-batch variability and are optimized for cell viability and cell growth after thawing.

- Sterile and endotoxin tested
- Reduces potential for transmission of infectious agents
- Eliminates regulatory compliance requirements associated with use of animal products
- Cost effective

PRODUCT DESCRIPTION	CODE
SeraFree™ Cryopreservation Media (RPMI)	N655-50ML N655-6X5ML
SeraFree™ DMEM Cryopreservation Media	N676-50ML



Performance of AMRESCO SeraFree™ Cryopreservation Media rival serum-containing media. HeLa cells (1×10^6) were frozen in AMRESCO's DMEM (■) or RPMI (□) SeraFree™ media, serum-containing freezing media (■) and a competitor's serum-free freezing media (■). Thawed cells were counted using standard trypan blue exclusion assay.



Viability of post-thaw cultures of K562 cells. Cells frozen in AMRESCO SeraFree™ Cryopreservation Media (■) exhibited higher recovery than cells frozen in traditional RPMI freezing media containing DMSO and serum (□). Viability of cells recovering from cryopreservation in AMRESCO SeraFree™ Cryopreservation Media was comparable or better than that of cells in Competitors 1 (■) and 2 (■) serum-free freezing media. Viability was determined by standard trypan-blue exclusion assay.

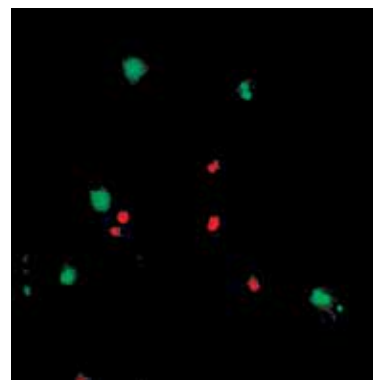
Quick-View™ Fluorescent Viability Stain

Quick-View™ Fluorescent Viability Stain is a ready-to-use staining reagent for easy discrimination between live and dead mammalian cells. Supplied in an easy-to-use dropper bottle, the single staining solution is a mixture of acridine orange for live cell identification and ethidium bromide for identification of dead cells. The acridine orange stained live cells appear green and ethidium bromide stained dead cells appear red when visualized by fluorescence microscopy.

The Quick-View™ Fluorescent Viability Stain is sensitive, fast and reliable. The cells and stain solution are simply mixed 1:1 and are immediately ready for visualization. Washing, incubation and fixation steps are eliminated. The set up, clean up and storage is simple and easy with minimal contact with reagents. The versatile stain can be used for both cells in suspension as well as adherent cells.

- Premixed, ready-to-use dye solution
- Dropper bottle format minimizes contact with hazardous reagents
- Cells can be visualized immediately upon dye addition
- Stains both suspended and adherent cells

PRODUCT DESCRIPTION	CODE
Quick-View™ Fluorescent Viability Stain	N600-5ML



Quick-View™ staining of hybridoma cells. Cell concentration was adjusted to 1×10^6 cells/ml and diluted 1:1 with Quick-View™. A 20 μ l aliquot of the cell suspension was loaded onto a hemacytometer and imaged through fluorescence microscopy.

Thiazoyl Blue Tetrazolium Bromide-MTT

MTT, a yellow tetrazole dye, can be reduced to a water-insoluble purple formazan compound by mitochondrial reductase enzymes. Since reduction only occurs in living cells the quantitation of formazan can be equated to the number of viable cells in the population.

- Sensitive colorimetric substitute for radioisotopes in cell proliferation and cytotoxicity studies
- Applications include cell viability assays, dose response curves and cytotoxicity assays

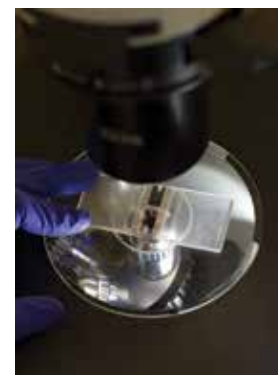
PRODUCT DESCRIPTION	CODE
Thiazoyl Blue Tetrazolium Bromide-MTT	0793-500MG
	0793-1G
	0793-5G



Trypan Blue, 0.4% Solution

Trypan Blue is a dye used in cell culture applications to determine cell viability. A researcher can remove a sample of cells from culture and combine in a 1:1 ratio with the Trypan Blue solution. Under the microscope, dead cells will appear a blue color and viable cells will appear clear and translucent. Using a hemacytometer, a researcher can quantify the percentage of dead cells within a population.

- Broadly used to determine cell viability in cell culture applications
- Sterile, ready-to-use solution



PRODUCT DESCRIPTION	CODE
Trypan Blue, 0.4% Solution	K940-100ML

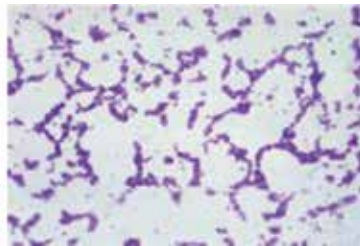
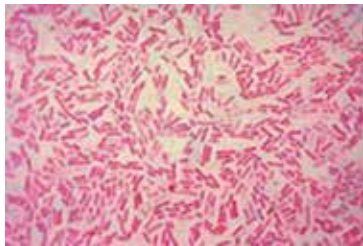
Gram Staining Kit

The gram stain is the most widely used staining procedure in bacteriology. It is called a differential stain because it differentiates between gram-positive and gram-negative bacteria. Bacteria that stain purple with the gram staining procedure are termed gram-positive; those that stain pink are said to be gram-negative. The terms positive and negative have nothing to do with electrical charge, but simply designate two distinct morphological groups of bacteria.

AMRESCO's Gram Stain kit includes all the stains required for this procedure, conveniently packaged in easy-to-use dropper bottles.

- Convenient dropper bottle format offers ease-of-use
- Easily differentiate between gram-negative and gram-positive bacteria

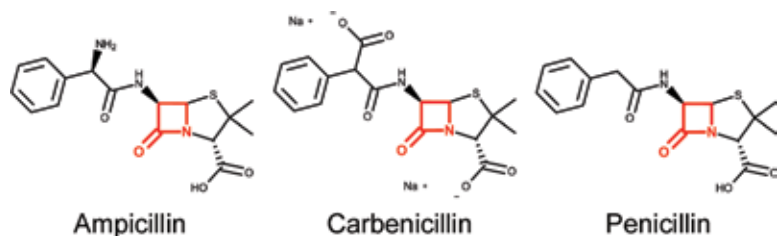
PRODUCT DESCRIPTION	CODE
Gram Stain Kit <i>Includes:</i> Gram Safranin Gram Iodine Gram Crystal Violet Gram Decolorizer Solution Contains sufficient reagents for 125 typical stains.	K918-KIT



Gram staining of Gram-negative and Gram-positive bacteria. *B. hypermegas* (left panel) and *S. aureus* (right panel) were stained using AMRESCO's Gram Stain Kit (K918-KIT). After removal of excess dye, *B. hypermegas* appeared pink in color confirming a gram-negative classification, while *S. aureus* appeared violet confirming a gram-positive classification.

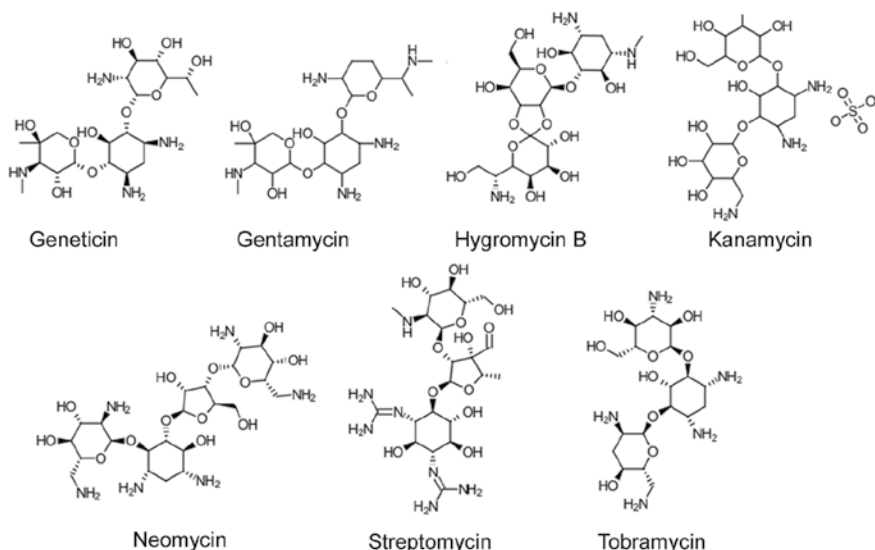
β-Lactam Antibiotics

PRODUCT DESCRIPTION	CODE
Ampicillin Sodium Salt 50 µg/ml working concentration, interferes with formation of bacterial cell wall.	0339-25G 0339-100G
Ampicillin Trihydrate 50 µg/ml working concentration, interferes with formation of bacterial cell wall.	0741-50G 0741-100G 0741-500G
Carbenicillin Disodium Salt 0.1-30 µg/ml, synthetic derivative of Penicillin.	J358-250MG J358-1G
Penicillin G 100 U/ml working concentration, interferes with synthesis of bacterial cell wall.	0242-100MU 0242-1BU



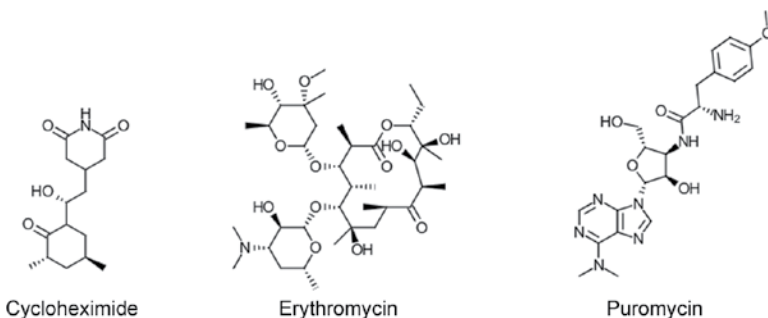
Aminoglycoside Antibiotics

PRODUCT DESCRIPTION	CODE
G418 Sulfate (Geneticin) 400 µg/ml working concentration, an aminoglycoside similar to gentamycin.	E859-100MG E859-1G E859-5G
G418 Antibiotic Solution 400 µg/ml working concentration, an aminoglycoside similar to gentamycin.	J847-20ML
Gentamycin Sulfate 15 µg/ml working concentration, binds to the 30S subunit of bacterial ribosome.	0304-5G 0304-10G
Gentamycin Sulfate, 50 mg/ml Solution 15 µg/ml, binds to the 30S subunit of bacterial ribosome.	E737-20ML
Hygromycin B 100 µg/ml working concentration, blocks peptide synthesis, inhibits chain elongation.	J607-100MG
Hygromycin B, 50 mg/ml Solution 150 µg/ml, blocks peptide synthesis, inhibits chain elongation.	K547-20ML
Kanamycin Sulfate 30 µg/ml working concentration, binds to the 70S subunit of bacterial ribosome.	0408-10G 0408-25G 0408-100G
Kanamycin Sulfate, 25 mg/ml Solution 30 µg/ml, binds to the 70S subunit of bacterial ribosome.	E710-20ML
Kanamycin Sulfate, 50 mg/ml Solution 30 µg/ml working concentration, binds to the 70S subunit of bacterial ribosome.	E713-20ML
Neomycin Sulfate 50 µg/ml working concentration, causes miscoding during protein synthesis.	0558-25G 0558-100G
Streptomycin Sulfate 30 µg/ml working concentration, binds to the 30S subunit of bacterial ribosome.	0382-50G 0382-100G 0382-500G
Tobramycin >900 µg/ml working concentration, inhibits Myeloperoxidase-dependent oxidant cell injury.	1B1109-100MG



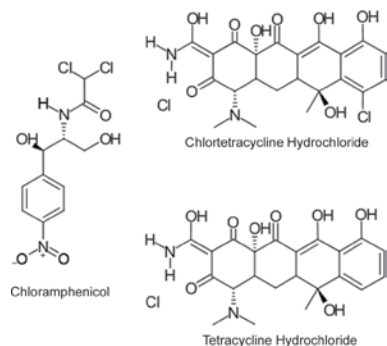
Antibiotics for Inhibition of Protein Synthesis

PRODUCT DESCRIPTION	CODE
Cycloheximide, Crystalline 100 - 1000 µg/ml working concentration, inhibits protein synthesis in eukaryotes but not in prokaryotes.	94271-100MG 94271-1G 94271-5G 94271-25G
Erythromycin 100 µg/ml working concentration, inhibits protein synthesis at transpeptidation step.	0219-10G 0219-50G
Puromycin Dihydrochloride 50 µg/ml working concentration, inhibits protein synthesis.	J593-25MG



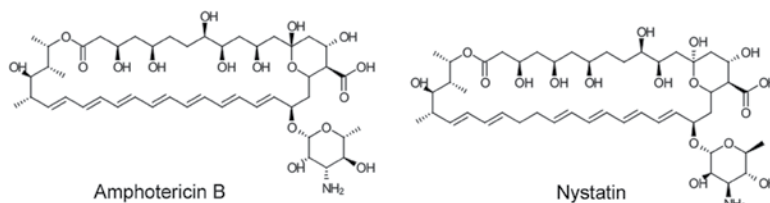
Bacteriostatic Antibiotics

PRODUCT DESCRIPTION	CODE
Chloramphenicol 20 µg/ml working concentration, inhibits protein synthesis at peptidyltransferase.	0230-100G 0230-500G
Chlortetracycline Hydrochloride 15 µg/ml working concentration, inhibits transfer of activated amino acids to growing polypeptide chain.	K653-5G K653-25G
Tetracycline Hydrochloride 15 µg/ml working concentration, blocks the binding of tRNA to the 30S subunit.	0422-25G 0422-100G
Tetracycline Hydrochloride, 50 mg/ml Solution 15 µg/ml working concentration, blocks the binding of tRNA to the 30S subunit.	E709-20ML



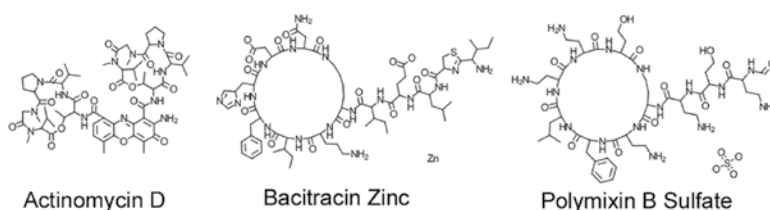
Polyene Antifungal Antibiotics

PRODUCT DESCRIPTION	CODE
Amphotericin B 2.5 µg/ml working concentration, alters membrane permeability.	0414-250MG 0414-500MG 0414-1G
Amphotericin B, Solubilized Solution 2.5 µg/ml working concentration, alters membrane permeability.	K721-20ML
Nystatin	0418-5MU 0418-25MU



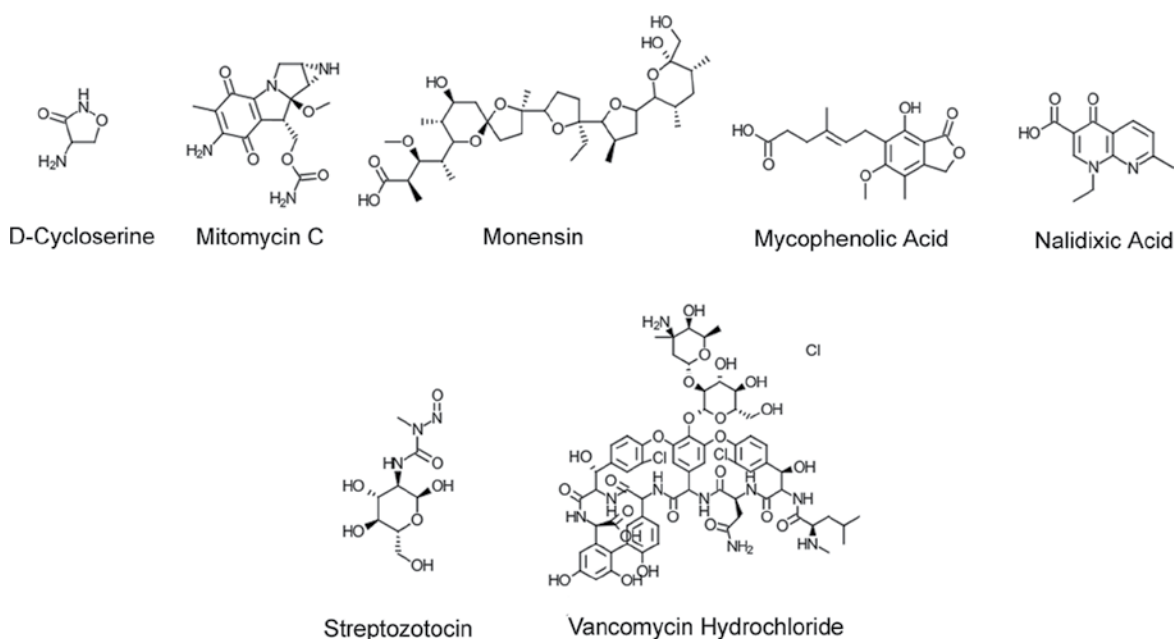
Polypeptide Antibiotics

PRODUCT DESCRIPTION	CODE
Actinomycin D 1 µg/ml working concentration, complexes with DNA, inhibits RNA synthesis.	J608-5MG
Bacitracin Zinc >40 µg/ml working concentration, inhibitor of protein disulfide, and a peptide inhibitor.	E952-500KU
Polymixin B Sulfate 300 U/ml working concentration, interferes with cytoplasmic membrane.	0319-25MU 0319-100MU



Other Antibiotics

PRODUCT DESCRIPTION	CODE
D-Cycloserine 100 - 200 µg/ml working concentration, inhibits cell wall biosynthesis.	K646-1G
Mitomycin C 25 µg/ml working concentration, inhibits nucleic acid synthesis.	J594-2MG
Monensin Sodium Salt 500 µg/ml working concentration, inhibitor of DNA synthesis.	K645-500MG K645-1G
Mycophenolic Acid 25 µg/ml working concentration, inhibits Inosinate dehydrogenase.	J592-100MG
Nalidixic Acid 15 µg/ml working concentration, inhibits DNA gyrase.	0677-50G 0677-250G
Streptozotocin Selection agent, mutagenic agent, and a diabetes inducer.	N407-1G
Vancomycin Hydrochloride 3 µg/ml working concentration, amphoteric glycopeptide.	0990-100MG 0990-250MG 0990-1G 0990-5G



Antibiotic Cocktails

PRODUCT DESCRIPTION	CODE
Penicillin/Streptomycin 10,000 U/ml Penicillin and 10 mg/ml Streptomycin when reconstituted in 20 ml of sterile dH ₂ O.	E490-20ML
Penicillin/Streptomycin/Amphotericin B 10,000 U/ml U Penicillin, 10 mg/ml Streptomycin and 1.56 mg/ml Amphotericin B when reconstituted in 20 ml of sterile dH ₂ O.	E485-20ML
Penicillin/Streptomycin/Neomycin 5,000 U/ml Penicillin, 5 mg/ml Streptomycin and 10 mg/ml Neomycin when reconstituted in 20 ml of sterile dH ₂ O.	E487-20ML
Penicillin Streptomycin, 100X 10,000 U/ml Penicillin and 10 mg/ml Streptomycin.	K952-100ML

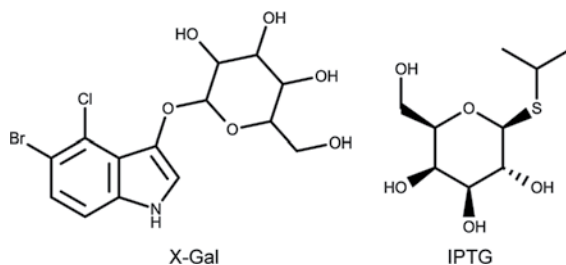


Induction Reagents

A colorimetric screening system, based on the expression of the lac operon's β -galactosidase coding gene lacZ, is widely used in the selection of bacterial transformants. Colonies which harbor recombinant plasmids appear white due to the disruption of the lacZ gene. Blue colonies arise from transformants harboring the original plasmid so that a functional lacZ gene is expressed. AMRESCO offers the lac operon inducer IPTG as a dioxane-free powder or as a 20 mg/ml solution. X-gal, offered as a powder, forms an intense blue precipitate in the presence of β -galactosidase. Additionally, AMRESCO offers a ready-to-use X-Gal/IPTG solution in a convenient dropper bottle.



PRODUCT DESCRIPTION	CODE
X-Gal	0428-100MG 0428-1G
IPTG Dioxane Free	0487-1G 0487-10G 0487-100G
IPTG, 20 mg/ml Solution	E708-1ML
X-Gal/IPTG Ready Solution	N714-1.5ML
X-Gal/IPTG Ready Solution Convenient dropper bottle format.	N714-10ML



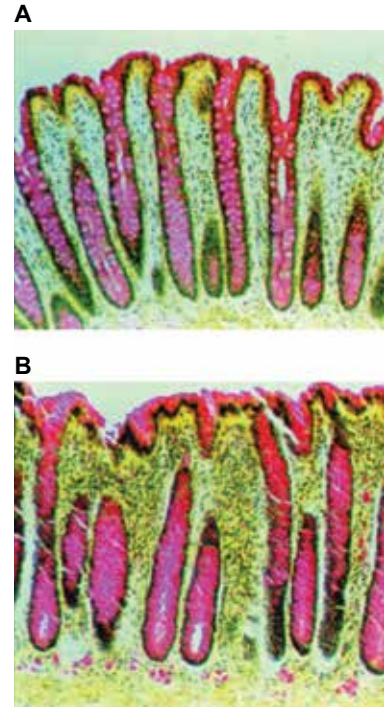
HistoChoice® MB[‡] (Molecular Biology) Tissue Fixative

HistoChoice® MB is specially formulated to preserve antigenic sites (for antibody probes) and nucleic acid sites (for *in situ* hybridizations) in their native state making pre-digestion or other recovery procedures for these important sites unnecessary. Primary antibodies can often be diluted several-fold due to the increased number of preserved antigenic sites, saving cost on every slide that is processed. HistoChoice® MB provides superior sensitivity, allowing markers to be observed at lower antibody levels. It makes an excellent transport medium and can be safely washed down the drain upon neutralization in most facilities. HistoChoice® MB directly replaces common fixatives, including formaldehyde-based, alcohol-based, Zenker's, B5 and B3, and Bouin's fixative. Tissues fixed in HistoChoice® MB exhibit vibrant staining, better nuclear and cytoplasmic detail and display a crisp appearance even after long-term fixation. HistoChoice® MB fixed tissue also retains a much more natural look and feel than formalin fixed tissue.

- Non-formalin based tissue fixative for molecular biology applications
- Preserves native state antigenic and nucleic acid sites
- Tissues retain natural look and feel compared to formalin fixed tissues
- A safe, non-toxic fixative—contains no formaldehyde, glutaraldehyde or mercury

PRODUCT DESCRIPTION	CODE
HistoChoice® MB (Molecular Biology) Tissue Fixative, 1X	H120-100ML
	H120-1L
	H120-4L

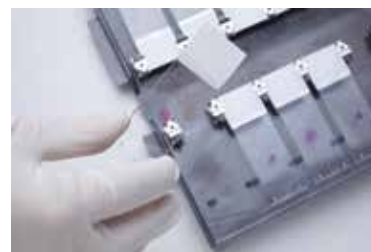
‡HistoChoice® Tissue Fixative is Protected Under US Patent #'s: 5,429,797 & 5,439,667.



Mucicarmine stain comparison of colonic mucosa fixed with either formalin (A) or HistoChoice® (B).

HistoChoice® Tissue Fixative

AMRESCO's HistoChoice® Tissue Fixative in pre-filled cups is a safe, convenient solution to on-site tissue collection and transport. The wide mouth, pre-labeled cups are ideal for use in doctors' offices, operating rooms, emergency rooms and outpatient clinics. HistoChoice® improves healthcare delivery because it is safer to use than formalin-based fixatives and is gentle on tissues and the environment. HistoChoice® Tissue Fixative directly replaces common fixatives, including formalin-based, alcohol-based, Zenker's, B5, and Bouin's fixatives. Additionally, it can also be used in sequence with other fixatives. The preservative characteristics of HistoChoice® Tissue Fixative make it more effective than standard formaldehyde-based products. It yields vibrant staining characteristics and consistent results, even after long-term fixation. The versatility of HistoChoice® Tissue Fixative makes it optimal for use in histopathology, cytology, histochemistry, immunohistochemistry and molecular pathology. It preserves tissue integrity, eliminating the need for marker recovery procedures.



HistoChoice® Tissue Fixative is economical to use as it does not require additional reagents for recovery procedures as do formalin-based fixatives. HistoChoice® also eliminates the need for expensive ventilation systems and reduces disposal costs. HistoChoice® is compatible with manual and automated processing procedures and equipment.

- No crosslinking of tissues as with formalin-based fixatives
- Minimizes disposal and compliance costs
- Available with or without alcohol
- A safe, non-toxic fixative—contains no formaldehyde, glutaraldehyde or mercury

PRODUCT DESCRIPTION	CODE
HistoChoice® Tissue Fixative Without Alcohol Pre-filled cups, 100 per case	H108-60ML
HistoChoice® Tissue Fixative Without Alcohol	H108-16L H108-1GAL H108-4G
HistoChoice® Tissue Fixative With 18% Alcohol Pre-filled cups, 100 per case	H112-15ML H112-30ML
HistoChoice® Tissue Fixative With 18% Alcohol Pre-filled cups, 50 per case	H112-90ML

‡HistoChoice® Tissue Fixative is Protected Under US Patent #'s: 5,429,797 & 5,439,667.

HistoChoice® Dermatology Fixative

The fixation characteristics of HistoChoice® Dermatology Fixative are much better than those of formaldehyde-based fixatives, yielding consistent results even after long-term fixation. Carbohydrates, proteins, antigenic sites and nucleic acids are all effectively preserved. Tissues fixed with HistoChoice® Dermatology Fixative have a similar appearance to those fixed in formalin-based fixatives and also show more sensitive staining.

- Specifically formulated for skin samples
- Ideal for histochemistry, immunohistochemistry and *in situ* hybridization
- Offers all the features of HistoChoice® Tissue Fixative



PRODUCT DESCRIPTION	CODE
HistoChoice® Dermatology Fixative	H115-4L

HistoChoice® Clearing Agent

HistoChoice® Clearing Agent is a much less hazardous replacement for xylene/toluene. Compatible with organic mounting media, HistoChoice® Clearing Agent is designed to work with isopropanol in automated processors. It also offers faster wax dissolution and slower evaporation than xylene with no oily residue.

- Xylene replacement—non-toxic, non-carcinogenic, non-flammable
- Virtually odorless and non-irritating to human skin
- Faster wax dissolution and slower evaporation than xylene



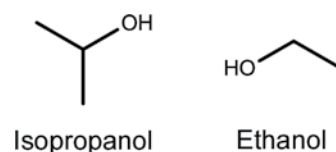
PRODUCT DESCRIPTION	CODE
HistoChoice® Clearing Agent	H103-1L H103-4L

HistoChoice® Clearing Agent is Protected Under US Patent # 5,344, 637.

HistoChoice® Ancillary Alcohols

AMRESKO's alcohols provide high purities for the most demanding histological applications. Each lot has been tested for a variety of impurities which can interfere with tissue processing and staining. The denatured ethanol is a blend of 95% ethanol and 5% isopropanol and does not contain harmful methanol, methyl ethyl ketones or methyl isobutyl ketones which can interfere with laboratory procedures. Each alcohol is provided in safe polyethylene bottles which will not break or corrode.

- No harmful methanol, methyl ethyl ketones or methyl isobutyl ketones
- Offered as 100% absolute alcohol
- High purity



PRODUCT DESCRIPTION	CODE
Isopropyl Alcohol	0918-500ML
	0918-1L
	0918-4L
	0918-20L
Ethanol, Anhydrous	E402-4L

HistoChoice® Mounting Media

HistoChoice® Mounting Media was designed for use with HistoChoice® Clearing Agent, but can also be used as a separate, stand-alone medium for standard slide preparation. It is suitable for both thick or thin specimen mounting. It can also be used with immersion oil. The low viscosity of this mounting media means easier application resulting in bubble-free preparations which saves valuable lab time.

- Does not crack or splinter with age and will not discolor
- Low viscosity for bubble-free slide preparations
- Works for all types/sizes of specimens

PRODUCT DESCRIPTION	CODE
HistoChoice® Mounting Media	H157-120ML
	H157-475ML

