

MP Biomedicals is a world-leading supplier of products for life science research for over 50 years. We strive to meet your needs in the lab.



MP Premium Dextran Sulfate Sodium Salt (DSS)

Colitis Research Grade
(36,000 - 50,000 m.wt.)

At least 3,000 Scientists Prove MP DSS is the Most Effective in the Industry! Let us **PROVE** it to you!

**Customized
Animal Research Diets
Delivered Fresh
to Your Lab!**



From small scale research
to large scale manufacturing,
we are there with you
every step of the way.

inside:

- Equipment
- Isolation Kits
- Purification Kits
- Chemicals
- Media
- Contamination Control
- Lab Supplies
- Radiochemicals

GRIND, LYSE and HOMOGENIZE any sample in a FLASH!

OFTEN IMITATED,
NEVER
DUPLICATED

MOST
VERSATILE!

FastPrep-24™ 5^G
Homogenizer

**Delivering the most
DNA, RNA and Proteins from
the most resistant samples in
40 seconds or less!**

The FastPrep-24™ 5G Instrument is the latest version of the well-known FastPrep® system. This versatile sample disruption device gives the ultimate in speed and performance for the lysis of biological samples.

A completely self-contained system, the FastPrep-24™ 5G Instrument eliminates the risk of cross-contamination and time-consuming clean-up associated with manual lysis method.

Samples and buffers are simply added to a Lysing Matrix tube containing specialized Lysing Matrix beads. The ergonomic design of the instrument ensures an easy loading of the sample tubes that remains securely sealed during the processing.

The homogenization speed and duration times are manually programmed using a touchscreen visual display. After setting your speed and time with the touch of a button, just push «run», and in less than a minute your samples are completely lysed!

| Cat. No. | Description |
|-----------|----------------------------|
| 116005500 | FastPrep-24™ 5G Instrument |

www.mpbio.com, www.mgp.cz



FastPrep® Sample Holders

Unique versatility in
sample number,
size and
temperature conditions



| Cat. No. | Description |
|-----------|--|
| 116002528 | CoolPrep™ Sample Holder (24 x 2 mL) |
| 116002530 | CoolTeenPrep™ Sample Holder (6 x 15 mL) |
| 116002531 | CoolBigPrep™ Sample Holder (2 x 50 mL) |
| 116002526 | TeenPrep™ Sample Holder (12 x 15 mL) |
| 116002525 | BigPrep™ Sample Holder (2 x 50 mL) |
| 116002512 | QuickPrep™ Sample Holder (24 x 2 mL) |
| 116002527 | HiPrep™ Sample Holder (48 x 2 mL) |
| 116002540 | TallPrep™ Sample Holder (24 x 4.5 mL) |
| 116002545 | All Metal QuickPrep™ Sample Holder (24 x 2 mL) |
| 116002546 | All Metal TeenPrep™ Sample Holder (12 x 15 mL) |
| 116002547 | All Metal BigPrep™ Sample Holder (2 x 50 mL) |

SuperFastPrep-2™

NEW



**Lyse your samples
in 5 Seconds wherever you are!**

An innovation in the sample lysis industry, the SuperFastPrep-2 instrument is a portable omnidirectional bead beating system with a unique, patent pending balanced crankshaft-slider mechanism generating efficient sample homogenization.

**Powerful, Portable, Sample Lysis
at your Fingertips**

| Cat. No. | Description | Pack Size |
|-----------|---------------------|-----------|
| 116011500 | Super FastPrep-1 | Each |
| 116011510 | Field Carrying Case | Each |
| 116011520 | Voltage Converter | Each |

FastPrep-96™ - The Ultimate in High-Throughput Sample Preparation

- High Throughput - Process up to 192 samples simultaneously in 2 x 96 deep well plates (included)
- Exceptional Versatility - Interchangeable sample holders available: 96 x 2 mL tubes, 48 x 4.5 mL tubes, 24 x 15 mL tubes, 8 x 50 mL tubes, and 2 x 250 mL flasks
- Fast Processing Speed - 1800 Oscillations/min
- True Linear Motion - Eliminates the need to re-orient plates mid-cycle

EFFICIENTLY LYSE:

Human and animal tissues,
Tumors, cultured cells
Leaves, seeds, stems, roots
Bacteria gram + or -
Yeast, fungi, spores
Feces, soil, sediments,
Food samples



| Cat. No. | Description |
|-----------|--|
| 116010500 | FastPrep-96™ Instrument (includes 2 x 96 well plate Sample Holder) |

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MPure-12™ Automated Nucleic Acid Purification System

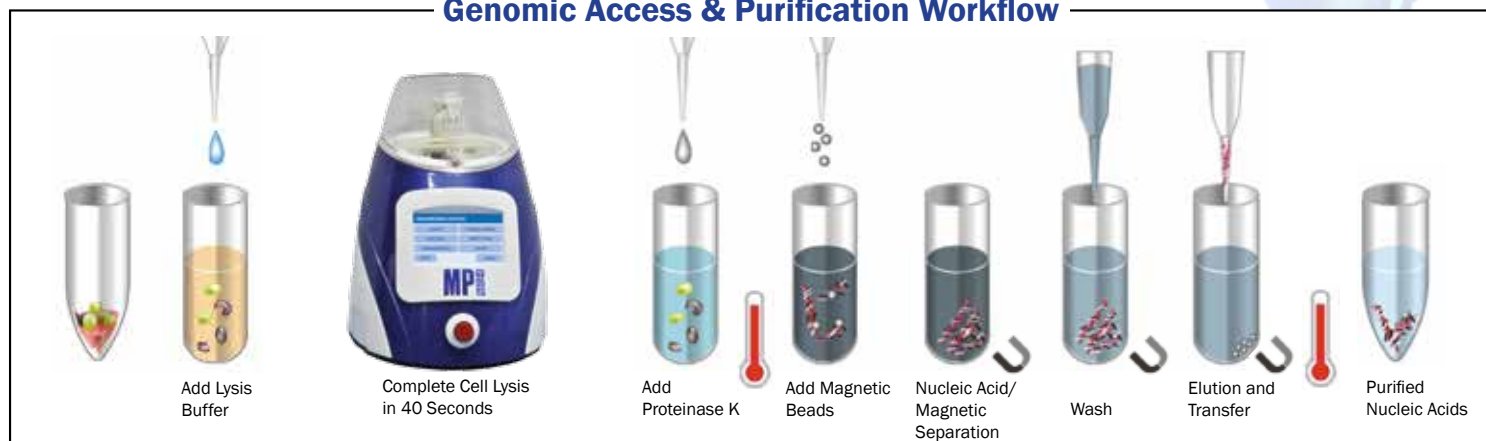
- Fully Automated
- High Reproducibility
- Highest Yield & Purity
- Flexibility & Simplicity
- No Cross-contamination
- Scalability, ease of use and convenience

**Process up to 12 samples
in a true walk away system.**

The MPure-12™ allows rapid purification of nucleic acids from a wide variety of environmental samples using magnetic bead separation technology. Combined with a uniquely designed magnetic bead processing chamber, the fully integrated and easy-to-use pre-packaged reagent kits offer superior yields of nucleic acids and high-quality results at an affordable price.



Genomic Access & Purification Workflow



15 Reagent Kits to Purify DNA & RNA from Any Sample Type!

| Description | Pack Size |
|---|-----------|
| MPure-12™ system | 1 unit |
| MPure-12™ Bacterial DNA extraction kit | 48 preps |
| MPure-12™ Viral/Pathogen Nucleic Acids extraction kit B | 48 preps |
| MPure-12™ Cell & Tissue total RNA extraction kit | 48 preps |

visit www.mpbio.com for complete list of reagent kits.

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Make your experiments easy with the FastPrep extraction kits

Ready-to-Use Protocols for DNA, RNA and Protein Isolation

- Rapid and reproducible sample lysis and purification process
- No cross contamination with closed Lysing Matrix tubes
- Increased yields of high quality DNA, RNA and proteins
- Integrity and size of DNA, RNA and proteins are retained
- Nucleic acids and proteins are ready-to-use in downstream applications

| Description | Cat. No. |
|-----------------------------|-----------|
| FastDNA® Spin Kit for Soil | 116560200 |
| FastDNA® Spin Kit for Feces | 116570200 |
| FastDNA® Spin Kit | 116540600 |
| FastRNA® Pro Blue Kit | 116025050 |
| FastRNA® Pro Red Kit | 116035050 |
| FastRNA® Pro Green Kit | 116045050 |
| FastRNA® Pro Soil Kit | 116070050 |
| FastPROTEIN® Red Matrix | 116550600 |
| FastPROTEIN® Blue Matrix | 116550400 |



Visit www.mpbio.com to see our complete line of Fast DNA, FastRNA Kits.

ETBR Greenbag Disposal Kit



Rapid concentration of ethidium bromide from large volumes of liquid into a “tea bag”

One bag of ETBr green bag can remove 10 mg of Ethidium Bromide from the solution. Each kit can remove 500 mg of Ethidium Bromide.

| Cat. No. | Description | Pack Size |
|-----------|--------------------------------------|-----------|
| 112350200 | EtBr GREENBAG™ Disposal Kit | 50 Bags |
| 04806113 | Ethidium Bromide - powder | 5 g |
| 04802511 | Ethidium Bromide - solution 10 mg/mL | 10 mL |

Spin Modules & Recovery Tubes

Save time and purify larger DNA fragments due to less manipulation of bound DNA

SPIN Modules are applied in molecular biology for its ability to separate particles from solutions in a few seconds.



| Cat. No. | Description | Pack Size |
|-----------|--------------------------------|--------------------------|
| 112080600 | SPIN Module and Recovery Tubes | 60 filters/ catch tubes |
| 112080800 | SPIN Module and Recovery Tubes | 100 filters/ catch tubes |

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isolation/purification

800.854.0530 / www.mpbio.com

Achieve Optimal Lysing Performance - MP FastPrep® Lysing Matrix Tubes

Lysing matrices are critical components of the FastPrep System which are prepared and dispensed under rigorous conditions. The result is a premium product that is ready to use with confidence.

Matrices are available separately for use with your own unique buffers, and are also components of our complete purification kits. Depending on your sample type and size, the Lysing Matrix are available in 2 mL, 4.5 mL, 15 mL, 50 mL tubes or 96-well plates.

| Pack Sizes | Product |
|-----------------------------------|------------------------------|
| 50, 100 and 500 x 2 mL tubes | 2 mL |
| 25, 50 and 100 x 4.5 mL tubes | 4.5 mL |
| 5, 25 and 50 x 15 mL tubes | 15 mL |
| 10, 50, 100 and 500 x 50 mL tubes | 50 mL |
| 1 and 10 x 96 well plates | 96-well plates (96 x 1.2 mL) |

Thorough grinding of any sample on any bead beater



| | | Lysing Matrix | | | | | | | | |
|--|--|---------------|---|---|---|---|---|---|---|---|
| Sample type | | A | B | C | D | E | M | S | Y | Z |
| Soft tissues | Animal & Human tissues | | | | | | | | | |
| | Lung, Breast, Kidney, Heart, Liver, Intestine, Muscle, Spleen, Brain | x | | | x | | | | | x |
| | Skin | x | | | x | | | | | |
| | Nail | | | | | | | x | | |
| | Tail, Ear | x | | | | | | x | | |
| Unique samples | Artery | x | | | x | | | | | x |
| | Hair | | | | | | | x | | |
| | Bone | x | | | | | x | x | | |
| | Tumor | x | | | | | | x | | |
| | Mammalian cell | x | | | x | | | | | x |
| | Infected tissue (isolation of viruse) | | | | | | x | | | |
| | Microorganisms | | | | | | | | | |
| | Bacteria (gram+ and -) | x | x | | | | | | | |
| | Yeast, Mold | x | | x | | | | | x | |
| | Bacterial & Fungal spore | x | x | | | | | | | |
| Algae | x | | x | | | | | x | | |
| Virus | x | x | | | | | | | | |
| Environmental samples | | | | | | | | | | |
| Soil, Marine sediment, Rhizosphere, Manure, Compost, Sludge, Feces, Wastewater | | | | | | x | | | | |
| Plant tissues | | | | | | | | | | |
| Leaves | | x | | | x | | | | | x |
| Seed | | x | | | | | x | x | | |
| Root | | x | | | | | | x | | |
| Needle | | x | | | | | x | x | | |
| Wood | | x | | | | | | | | |
| Stem, Flower | | x | | | x | | | | | x |
| Insects & worms | | | | | | | | | | |
| Ticks, Fly | | x | | | x | | | | | x |
| Nematode | | x | | x | x | | | | | x |
| Bee, Mosquitoe | | x | | | x | | | | | x |



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CIRCLEGROW®

Superior Plasmid Yield Through Enhanced Cell Growth

Perfect for overnight or weekend cultures, CIRCLEGROW® Medium is a super-rich bacterial growth medium that produces up to three times more plasmid DNA than traditional growth medium.

CIRCLEGROW® Medium consists of a protein and amino acid source, biological buffer, and a complex carbon source that gets metabolized at a much slower rate than glucose, thus prolonging the cell cycle and preventing cell death during the log phase of growth.

Cells grown with CIRCLEGROW® Medium remain healthy for more than two days and continue to divide slowly after the log phase of the growth has been completed.

Reduce Hands-On Work and Preparation Time

CIRCLEGROW® cultures do not need to be constantly monitored by O.D. readings due to the incremental post-log cell growth. Obtain excellent yields of plasmid DNA from smaller culture volumes, and confidently leave cultures overnight or over the weekend.

CIRCLEGROW® Broth

Use 40 grams (40 capsules) per liter.

| Cat. No. | Size |
|------------------|----------------|
| Powder | |
| 113000112 | 227 g (0.5 lb) |
| 113000122 | 454 g (1 lb) |
| 113000132 | 908 g (2 lb) |
| 113000142 | 2.3 kg (5 lb) |
| 113000152 | 5 kg (11 lb) |
| 113000162 | 15 kg (33 lb) |
| Capsules | |
| 113000121 | 250 caps |
| 113000131 | 1000 caps |
| 113000141 | 2500 caps |
| Sterile Solution | |
| 113000104 | 500 mL |

LB Medium Capsules!

LB broth is the most widely used medium for the growth of bacteria. MP Biomedicals offers LB media in a variety of formats for convenience and ease of use.

Capsule format eliminates weighing, dust and cleanup
Simply drop capsules in water and autoclave

LB Medium

Use 25 grams (25 capsules or 5 large capsules) per liter.
Contents/liter: 10 g tryptone, 5 g yeast extract, 10 g NaCl

| Cat. No. | Size |
|------------------|----------------|
| Powder | |
| 113002022 | 454 g |
| 113002032 | 1 kg (2.2 lb) |
| 113002042 | 5 kg (11 lb) |
| Capsules | |
| 113002011 | 227 g |
| 113002021 | 454 g (1 lb) |
| 113002031 | 1 kg (2.2 lb) |
| 113002041 | 5 kg (11 lb) |
| 113002051 | 15 kg (33 lb) |
| Large Capsules | |
| 113002016 | 227 g (0.5 lb) |
| 113002026 | 454 g (1 lb) |
| 113002036 | 1 kg (2.2 lb) |
| 113002046 | 5 kg (11 lb) |
| Sterile Solution | |
| 113002014 | 500 mL |



**A large variety of
LB Broth in stock or custom
formulations available.**



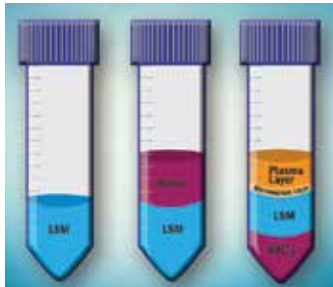
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Lymphocyte Separation Medium (LSM)

Get Peace of Mind in Cell Separation.

MP biomedical offers the highest quality in multiple size packs.

LSM has been cited in over 150 publications in the past 3 years!



| Cat. No. | Description | Pack Size |
|-----------|---|-----------|
| 0850494X | Lymphocyte Separation Medium - LSM | 100 mL |
| 08540494 | | 5x100 mL |
| 091692249 | LymphoSep™ - Lymphocyte Separation Medium | 100 mL |
| 091692254 | | 500 mL |

MonoPoly Resolving Medium

Mono-Poly® Resolving Medium separates mononuclear and polymorphonuclear leukocytes from whole human blood in two distinct bands. Mono-Poly™ is highly versatile and can be used for a variety of research and clinical applications such as histocompatibility testing, lymphocyte studies, in vitro cell mediated immunity assays, or any procedure requiring pure white blood cell preparation.

it is the only Ficoll®-Hypaque medium which provides:

- Separation of mononuclear and polymorphonuclear leukocytes in two distinct bands.
- Greater than 95% cell viability.
- An easy, single step procedure.
- No sample dilution requirement or lysis of red blood cells

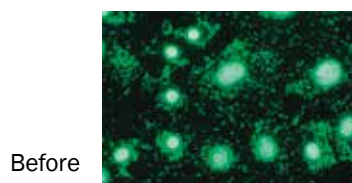
| Cat. No. | Description | Pack Size |
|-----------|----------------------------|-----------|
| 091698049 | MonoPoly® Resolving Medium | 100 mL |

Mycoplasma Removal Agents (MRA)

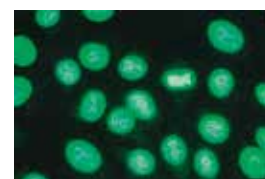


Eliminate mycoplasma contamination without harming your cell lines!

- Eliminate mycoplasma completely from contaminated cultures by inhibiting mycoplasma DNA gyrase.
- Obtain clean cultures within a week
- Kills most common mycoplasma strains
- Prevents mycoplasma contamination with low cytotoxicity
- Prevents re-contamination with MRA at low doses.



Before



After

| Cat. No. | Description | Pack Size |
|-----------|--------------------------|-----------|
| 093050044 | Mycoplasma Removal Agent | 5 mL |

Zymolyase

Lyse living yeast cell wall with ease!



Zymolyase is used to lyse living yeast cell walls to produce protoplast or spheroplast of various strains of yeast cells.

- Efficient lysis
- Lot to Lot conformity
- High reproducibility

| Cat. No. | Description | Pack Size |
|----------|--|-----------|
| 08320921 | Zymolyase 20T from Arthrobacter luteus | 1 g |
| 08320932 | Zymolyase 100T, from Arthrobacter luteus | 250 mg |
| 08320931 | | 500 mg |

Trypan Blue

Trypan Blue is used in dye exclusion procedures for viable cell counting. The dye permeates into the dead cells, leaving the viable cells uncolored.

| Cat. No. | Description | Pack Size |
|-----------|-------------|-----------|
| 091691049 | Trypan Blue | 100 mL |

Urea Ultra Pure

Urea Ultra pure is a mild agent usually used in the solubilization and denaturation of proteins. The proteins unfold and separate into their constituent polypeptide chains. It is commonly used to solubilize and denature proteins for denaturing isoelectric focusing and two-dimensional electrophoresis and in acetic acid-urea PAGE gels. Urea is used in cell or tissue culture media to increase the osmolality.

| Cat. No. | Description | Pack Size |
|----------|-----------------|-----------|
| 04821519 | Urea Ultra Pure | 1 lb |
| 04821527 | Urea Ultra Pure | 5 lb |
| 04821528 | Urea Ultra Pure | 1 kg |
| 04821530 | Urea Ultra Pure | 5 kg |

Accutase Cell Detachment Solution

Accutase Cell Detachment Solution is effective in detaching primary fibroblasts, endothelial cells, neurons, tumor cells and insect cells. This reagent is useful for creating single cell suspensions from clumped cell cultures for accurate cell counting.

| Cat. No. | Description | Pack Size |
|-----------|-----------------------------------|-----------|
| 091000449 | Accutase Cell Detachment Solution | 100 mL |

Doxycycline Hydrochloride

Doxycycline Hydrochloride is an antibiotic used to inhibit matrix metalloproteinases and used to inhibit the inflammatory response of Lyme Disease. This antibiotic is effective against gram + and gram - bacteria, and is commonly used to treat a variety of infections. It is a broad spectrum antibiotic and bacteriostatic.

| Cat. No. | Description | Pack Size |
|------------|---------------------------|-----------|
| 0219504401 | Doxycycline Hydrochloride | 1 g |
| 0219504405 | Doxycycline Hydrochloride | 5 g |
| 0219504410 | Doxycycline Hydrochloride | 10 g |



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Trehalose Dihydrate

Trehalose dihydrate is a natural α , α -1,1-glucoside bond between two α -glucose units which yields 2 moles of D-glucose upon acid hydrolysis. Has 90% of the calorific content of sucrose. Inhibits polyglutamine-mediated protein aggregation both in vivo and in vitro.

Trehalose has also been used in several biopharmaceutical monoclonal antibody formulations. It is also used as a protein-stabilizing agent in research. Use as a cryo-protectant in a variety of cell freezing media.



| Cat. No. | Description | Pack Size |
|------------|----------------------------|-----------|
| 0210309780 | D-(+)- Trehalose Dihydrate | 100 g |

CHAPS®

CHAPS is a detergent useful for solubilizing membrane proteins. Frequently used prior to electrophoresis since it generally does not denature the proteins. It can also be used as a non toxic stabilizing agent for growth factors.



CHAPS combines features of bile salts and N-alkyl sulfobetaines. Better at solubilizing proteins than structurally-related carboxylic acid anions and is much more effective at breaking protein-protein interactions than either sodium cholate or TRITON® X-100 Detergent. Capable of solubilizing the opiate receptor to a state exhibiting reversible binding of opiates. Also, capable of disaggregating cytochrome P450 to its monomeric form without denaturation.

| Cat. No. | Description | Pack Size |
|----------|-------------|-----------|
| 04808196 | CHAPS® | 5 g |

MP Premium Dextran Sulfate Sodium Salt (DSS)

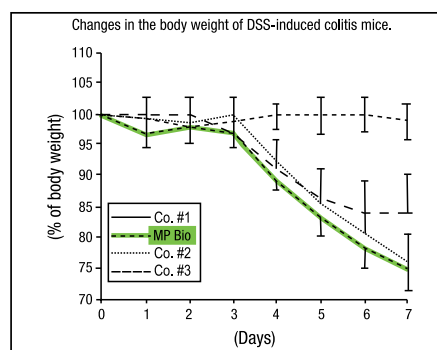
The Gold Standard in Colitis Research

At least 3,000 Scientists Prove MP DSS is the Most Effective in the Industry!

Let us **PROVE** it to you!



High Purity, Reproducible Quality! Best Results!



The mice were fed normal chow and 2.0% wt/wt DSS in water for 1 week and then sacrificed. The weight of individual mice was monitored daily. The data represent means=SD (data obtained from Bamba et.al., 2012)

- Validated by 3,000+ scientific publications
- Highest purity (99%) and stability
- Offers Highest Sulfur content (18-20%)
 < 0.2% free sulfate
- Highest efficiency
- Best value in the industry.

MP Premium DSS - The World's Most Potent Intestinal Inflammation Reagent

| Cat. No. | Description | Pack Size |
|------------|---------------------|-----------|
| 0216011050 | DSS - Colitis Grade | 50 g |
| 0216011080 | DSS - Colitis Grade | 100 g |
| 0216011090 | DSS - Colitis Grade | 500 g |

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PBS Tablets

Ideal for any Immunoassay procedures!

Serves as an irrigating, transporting and diluting fluid while maintaining intra- and extracellular osmotic balance



| Cat. No. | Description | Pack Size |
|-----------|-------------|-----------|
| 092810305 | PBS Tablets | 100 tabs |
| 092810306 | PBS Tablets | 200 tabs |
| 092810307 | PBS Tablets | 500 tabs |

Histopaque 1077

Histopaque™1077 is a solution of polysaccharide (Ficoll-400) and a radiopaque contrast medium (sodium diatrizoate). Low viscosity of Ficoll® is used for lymphocyte isolation procedure involving a short, low speed centrifugation. A solution of Ficoll® and sodium metrizoate of the proper density and osmotic strength is placed in a centrifuge tube. Blood is layered on top, and the two-phase system was centrifuged at a low speed for a short time. The erythrocytes and granulocytes sediment to the bottom of the tube. Because of lower density, the lymphocytes are found at the interface between the plasma and the Ficoll-Paque with other slowly sedimenting particles (platelets and monocytes).



| Cat. No. | Description | Pack Size |
|------------|------------------|-----------|
| 0219083780 | Histopaque® 1077 | 100 mL |

Mylar Plate Sealer

Protect microplate well contents with the Mylar Plate Sealer from MP Biomedicals. Assure a tight seal in cell culture, ELISA, incubation, Fluorescence, high-throughput, microbiology and PCR. Mylar plate sealers are gas permeable. Acetate and mylar sealers are NOT autoclavable.



| Cat. No. | Description | Pack Size |
|-----------|--------------------|-----------|
| 097640205 | Mylar Plate Sealer | 100 pack |

Plant Con

PlantCon™ – a line of presterilized, disposable, plastic growth containers. This labware has been designed to reduce the time spent preparing an in vitro growth environment for plant cultures – and to minimize the risk of contamination.



Instead the PlantCon™ system permits you to start culturing plant cells and plantlets with the following advantages: Unbreakable – Safe to use, Presterilized – Easy to use, Clear plastic – Excellent light transmission, Disposable – Eliminates messy glass cleanup, Space Saving – Stackable, Manufactured under strict quality control procedures, Scientifically designed for plant cell culture, Special cover positioning – Special lugs in the cover lip allow the user to snap on the cover tight for handling or loose for free exchange of atmospheres.

| Cat. No. | Description | Pack Size |
|-----------|---|-----------|
| 092672202 | Plantcon™ Plant Tissue Culture (Sterilized) | 10 pk |
| 092672204 | Plantcon™ Plant Tissue Culture (Sterilized) | 50 pk |
| 092672206 | Plantcon™ Plant Tissue Culture (Sterilized) | 200 pk |

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Acrylamides

We offer the highest purity available in three different forms. Choose from traditional powder to use your own way, premixed powder which reduces spillage, waste and tedious weighing or premixed solutions for added convenience in your lab.



| Cat. No. | Description | Pack Size |
|----------|---|-----------|
| 04814326 | Acrylamide, Ultra Pure, $\geq 99.9\%$ | 5 mL |
| 04814329 | Acrylamide, Ultra Pure, $\geq 99.9\%$ | 1 kg |
| 04800175 | Bis-Acrylamide, Ultra Pure, $\geq 99.9\%$ | 250 g |

Phenols

Phenol is used as a reagent in chemical analysis. It is used in the manufacture of colorless or light-colored artificial resins, many medical and industrial organic compounds and dyes. It is commonly used in tissue preservation and DNA/RNA extraction with chloroform.

| Cat. No. | Description | Pack Size |
|------------|--|-----------|
| 11AQUAPH01 | AquaPhenol™ | 250 mL |
| 11RYRED001 | Ready-Red™ | 250 mL |
| 11AQUARED1 | Aquaphenol - Ready-Red Kit | 250 mL |
| 04813061 | Cesium chloride, ultra pure | 100 g |
| 04813063 | | 500 g |
| 04813069 | | 1 kg |
| 0219400225 | Chloroform, mobio reagent 99+% | 25 mL |
| 0219400280 | | 100 mL |
| 0219400290 | | 500 mL |
| 0219400291 | | 1 L |
| 04802517 | Phenol chloroform saturated solution, pH 4.5 | 400 mL |
| 04802514 | Phenol chloroform saturated solution, pH 5.2 | 100 mL |
| 04802515 | Phenol chloroform saturated solution, pH 5.2 | 400 mL |
| 04802519 | Phenol chloroform saturated solution, pH 6.6 | 400 mL |
| 04802521 | Phenol chloroform saturated solution, pH 6.7 | 400 mL |
| 0219605780 | Trichloroacetic acid solution | 100 mL |

Premixed Acrylamide Formulations

We supply Ultra Pure Acrylamide and Ultra Pure N, NI-Methylene-bis-acrylamide formulations in your choice of three different ratios. Just add the appropriate volume of deionized water to form a stock solution stable for up to one month at 4 °C.

- For 30 g powder, add 73.5 mL deionized water to prepare 100 mL of stock solution.
- For 200 g powder, add 490 mL deionized water to yield 665 mL of stock solution.

| Cat. No. | Description | Pack Size |
|----------|----------------------------------|-----------|
| 04800655 | Acrylamide/Bis-Acrylamide 19:1 | 30 g |
| 04800656 | Acrylamide/Bis-Acrylamide 19:1 | 200 g |
| 04800657 | Acrylamide/Bis-Acrylamide 29:1 | 30 g |
| 04800660 | Acrylamide/Bis-Acrylamide 37.5:1 | 200 g |
| 04800802 | Liqui-Gel™ 19:1 | 500 mL |
| 04800803 | Liqui-Gel™ 29:1 | 500 mL |
| 04800804 | Liqui-Gel™ 37.5:1 | 500 mL |

Agaroses

Agarose is useful in separation of nucleic acids electrophoretically because agarose gels have larger pore sizes than cross linked acrylamide gels at low concentrations and in chromatographic separations by either beading the agarose or cross-linking it.



| Cat. No. | Description | Pack Size |
|----------|-----------------------------------|-----------|
| 04820721 | Agarose, electrophoresis grade | 100 g |
| 04820723 | | 500 g |
| 04800668 | Agarose, genetic technology grade | 100 g |
| 04800669 | | 500 g |

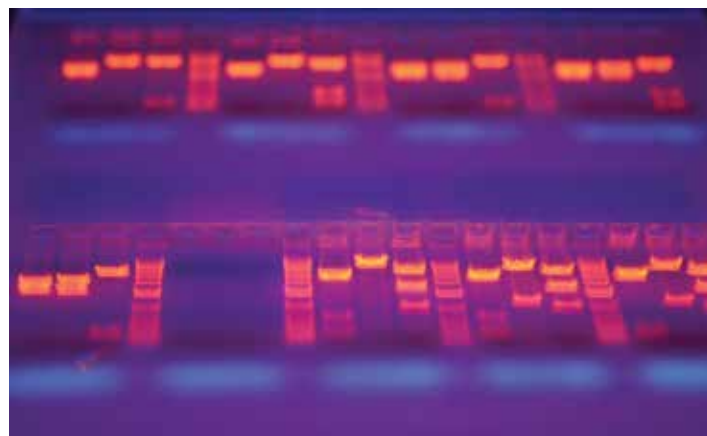
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Electrophoresis Reagents

| Cat. No. | Description | Pack Size |
|------------|---------------------------------|-----------|
| 04802811 | Ammonium persulfate | 25 g |
| 04802829 | | 100 g |
| 04808211 | Ammonium sulfate, ultra pure | 1 kg |
| 04808229 | | 5 kg |
| 0210128901 | Casein, hammerstein grade | 1 lb |
| 04808274 | Coomassie® Brilliant blue G-250 | 10 g |
| 08980681 | 3,3' diaminobenzidine (DAB) | 100 tabs |
| 04856126 | DTT, electrophoresis grade | 5 g |
| 0219482105 | DTT, molecular biology reagent | 5 g |
| 0219482125 | | 25 g |
| 04800682 | EDTA | 500 g |
| 04800683 | | 1 kg |
| 0219517480 | Ethylene glyco-bis | 100 g |
| 0219404790 | Formaldehyde, ACS reag. grade | 500 mL |
| 04800687 | Glycerol, ultra pure | 500 mL |
| 04800688 | | 1 L |
| 04800689 | | 4 L |
| 04808822 | Glycine, electrophoresis grade | 1 kg |
| 04808831 | | 5 kg |
| 04820539 | Guanidine hydrochloride, u.p. | 500 g |
| 04820540 | | 1 kg |
| 04820991 | Guanidine thiocyanate, r.g. | 500 g |
| 0210251601 | DL-Ornithine monohydrochloride | 1 g |
| 0210251625 | | 25 g |
| 0219483425 | 2 Mercaptoethanol | 25 mL |
| 0219064410 | Ponceau S | 10 g |
| 04811032 | Sodium dodecyl sulfate, u.p. | 500 g |
| 04811030 | | 1 kg |
| 0219895790 | Sodium dodecyl sulfate, 20% | 500 mL |
| 0215004901 | Streptavidin | 1 mg |
| 0215004905 | | 5 mg |
| 04805615 | TEMED, electrophoresis grade | 50 mL |
| 0215234680 | TMD, liquid substrate | 100 mL |

| Cat. No. | Description | Pack Size |
|----------|---------------------------|-----------|
| AGAH0100 | Agarose Mol Bio Grade | 100 g |
| AGAH0500 | Agarose Mol Bio Grade | 500 g |
| AGAH0050 | Agarose Low Melting Point | 50 g |
| AGAP0100 | Agarose Multipurpose | 100 g |
| AGAP0300 | Agarose Multipurpose | 3 x 100 g |
| AGAR0025 | Agarose High Resolution | 25 g |
| AGAR0050 | Agarose High Resolution | 50 g |

Agarose gels are used in immunoelectrophoresis (IEP) and double-diffusion Ouchterlony plates to demonstrate antibody-antigen reactions. Used in chromatographic separations by either beading the agarose or cross-linking it.



Taq DNA Polymerase

Recombinant form of the thermostable DNA polymerase from *Thermus aquaticus*, expressed in *E. coli*. The enzyme is highly purified and is free of non specific endo- or exonucleases.

- Highest performance and reliability
- Highly processive

Taq CORE kits

Taq DNA Polymerase + dNTPs in one Kit

Taq CORE Kits contain all the reagents (presented as separate items) required for PCR: MP Biomedicals' high quality recombinant Taq DNA polymerase, high purity dNTPs Mix (>99%), optimized incubation buffers with and without MgCl and a separate MgCl solution.

Two types of kits are supplied with dNTPs at either 10 mM each or 25 mM each.

| Cat. No. | Description |
|----------|--|
| EPTQK109 | Taq CORE Kit 10 (with dNTPs at 10mM each) |
| EPTQK259 | Taq CORE Kit 25 (with dNTPs at 25mM each) |

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Protease Inhibitors

| Cat. No. | Description | Pack Size |
|------------|--------------------------------------|-----------|
| 0219350380 | AEBSF | 100 mg |
| 0219350390 | | 500 mg |
| 0219350391 | | 1 g |
| 0215284305 | Antipain hydrochloride | 5 mg |
| 0215284325 | | 25 mg |
| 0219115810 | Aprotinin, ~4 IU/mg | 10 mg |
| 0219115825 | | 25 mg |
| 0219038250 | Aprotinin, analytical grade | 50 mg |
| 0219077910 | Aprotinin solution, analytical grade | 10 mL |
| 0219077940 | | 40 mL |
| 0219506825 | Benzamidin hydrochloride hydrate | 25 g |
| 0215284405 | Bestatin | 5 mg |
| 0215284425 | | 25 mg |
| 0215284610 | E-64 | 10 mg |
| 0215155305 | Leupeptin hemisulfate | 5 mg |
| 0215155325 | | 25 mg |
| 0215155380 | | 100 mg |
| 0219536805 | Pepstatin A | 5 mg |
| 0219536825 | | 25 mg |
| 0219536883 | | 250 mg |
| 0219538105 | PMSF (phenylmethylsulfonyl fluoride) | 5 g |
| 0219538105 | | 25 mg |
| 0215883701 | Protease Inhibitor Cocktail Kit | 1 kit |

Surfactants

| Cat. No. | Description | Pack Size |
|------------|---|-----------|
| 0210214783 | Lecithin, from soybean | 250 g |
| 0210214790 | | 500 g |
| 0219859680 | Igelpal® CA-630 viscous liquid | 100 mL |
| 0210316890 | Polysorbate 20 | 500 mL |
| 0210306891 | | 1 L |
| 02194724.5 | Polysorbate 20, Cell Culture Reagent | 500 mL |
| 0219472404 | | 4 L |
| 0219484180 | Polysorbate 20, Molecular Biology Reagent | 100 mL |
| 04807423 | TRITON™ X-100 | 100 mL |
| 04807426 | | 500 mL |
| 02194725.1 | TWEEN® 80, Cell Culture Reagent | 100 mL |

Cell Culture Reagents

| Cat. No. | Description | Pack Size |
|------------|---|-----------|
| 0210138490 | Choline bitartrate, Cell Culture Reagent, ≥98% | 500 g |
| 02199524.5 | Calcium chloride, dihydrate, USP | 500 g |
| 0219952401 | | 1 kg |
| 0219605580 | Dimethyl sulfoxide, Cell Culture Reagent ≥99% | 100 mL |
| 0216000380 | Ficol® | 100 g |
| 091690049 | Phenol red 0.5% (w/v) solution | 100 mL |
| 0215684625 | Thiamphenicol | 25 g |
| 0210293390 | Thioglycolic acid sodium salt Bacteriological Grade, ≥97% | 500 g |
| 091689149 | Trypsin-EDTA Solution | 100 mL |

Solvents

| Cat. No. | Description | Pack Size |
|------------|--|-----------|
| 0230000804 | Acetonitrile, HPLC/Spectro Grade, ≥99.9% | 4 L |
| 0230000816 | | 4x4L |
| 0219400225 | Chloroform, Molecular Biology Reagent, 99+% | 25 mL |
| 0219400280 | | 100 mL |
| 0219400290 | | 500 mL |
| 0219400291 | | 1 L |
| 0215507880 | Isoamyl alcohol, ≥99% | 100 mL |
| 0215507891 | | 500 mL |
| 0215507891 | | 1 L |
| 0219400690 | Isopropyl alcohol, Molecular Biology Reagent, ≥99% | 500 mL |
| 0230014104 | Methanol, HPLC/Spectro Grade, ≥99.9% | 4 L |
| 0230014116 | | 4x4 L |

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Buffers

| Cat. No. | Description | Pack Size |
|------------|---|-----------|
| 0219875980 | Ammonium acetate, 7.5 M solution | 100 mL |
| 0219785991 | | 1 L |
| 0210100525 | Bicine | 25 g |
| 0210100580 | | 100 g |
| 0210100583 | | 250 g |
| 0210103880 | bis-Tris | 100 g |
| 0210103891 | | 1 kg |
| 091810454 | 1X HBS without calcium, magnesium | 500 mL |
| 091810554 | 1X HBS without calcium, magnesium, phenol red | 500 mL |
| 0210192625 | HEPES, free acid | 25 g |
| 0210192650 | | 50 g |
| 0210192680 | | 100 g |
| 0210192683 | | 250 g |
| 0210192690 | | 500 g |
| 0210192691 | | 1 kg |
| 0210192694 | | 5 kg |
| 0219483780 | MOPS, free acid, molecular biology reagent | 100 g |
| 0219483790 | | 500 g |
| 11RIST1370 | 10X PBD | 500 mL |
| 091861054 | 1X PBS, with magnesium chloride | 500 mL |
| 11PBS10X02 | 10X PBS | 1 L |
| 0219143101 | Potassium phosphate dibasic, ACS reagent grade | 1 kg |
| 0219143001 | Potassium phosphate monobasic, ACS reagent grade | 1 kg |
| 11SDS20002 | 10% SDS solution | 1 L |
| 0219486890 | sodium citrate, ACS reagent grade | 500 g |
| 02191440.5 | Sodium phosphate dibasic (Na ₂ HPO ₄), ACS reagent grade | 500 g |
| 11RIST2050 | 20X SSC Buffer | 500 mL |
| 11SSC20X01 | SSC Solution 20X | 5 L |
| 04821804 | 10X TAE Buffer | 1 kit |
| 11TAE50X01 | 50X TAE Buffer | 1 L |
| 11TBE10X03 | 10X TAE Buffer | 5 L |
| 04816721 | | 1 L |
| 04816724 | | 4 L |

Cell Biology culture media

| Cat. No. | Description | Pack Size |
|------------|-----------------------------|-----------|
| 0210026280 | Agar, NF grade, 80-100 mesh | 100 g |
| 0210026283 | | 250 g |
| 0210026290 | | 500 g |
| 0210026291 | | 1 kg |

Agar is a polysaccharide complex extracted by bleaching and hot water treatment of agarocytes from the red alga Rhodophyceae, and usually consisting of the genera Gelidium, Acanthopeltis, Ceramium, Pterocladia and Gracilaria. The algae are typically found in the Pacific and Indian Oceans and in the Sea of Japan

Antibiotics

| Cat. No. | Description | Pack Size |
|------------|--|-----------|
| 0219014805 | Ampicillin Sodium Salt | 5 g |
| 0219014825 | | 25 g |
| 0219452605 | Ampicillin Sodium Salt, Cell Culture Reagent | 5 g |
| 0215047750 | Blasticidin S. Hydrochloride | 50 mg |
| 0219509205 | Carbenicillin Disodium Salt | 5 g |
| 0215494691 | Cefazolin Sodium Salt | 1 g |
| 0219032105 | Chloramphenicol | 5 g |
| 0219032125 | | 25 g |
| 0215284505 | Chymostatin | 5 mg |
| 0219116880 | Clindamycin Hydrochloride | 100 mg |
| 0219415791 | Colistin Sulfate Salt | 1 g |
| 0219504405 | Doxycycline Hydrochloride | 5 g |
| 0219504410 | | 10 g |
| 0215507001 | Ionomycin Calcium Salt | 1 mg |
| 0215961101 | Ionomycin Free Acid | 1 mg |
| 0215002905 | Kanamycin Monosulfate | 5 g |
| 0215002925 | | 25 g |
| 0215894805 | Lincomycin Hydrochloride | 5 g |
| 0219453202 | Mitomycin C, Cell Culture Reagent | 2 mg |
| 0215626810 | Piperacillin sodium Salt | 10 g |
| 0219554001 | Vancomycin Hydrochloride | 1 g |



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cleaning/sanitizers

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Cleaning labware has never been so easy!

Researchers have trusted 7X™ Detergents to clean labware for years. Now 7X™ is ready to use right from the bottle — just pump and go!

Available in a 1-gallon bottle with hand pump dispenser.

| Cat. No. | Description | Pack Size |
|-----------|--------------------------|-----------|
| 097668093 | 7X Ready To Use | 1 gal |
| 097667493 | 7X O-Matic | 1 gal |
| 097667593 | ES 7X O-Matic | 1 gal |
| 097667193 | ES 7X Liquid Concentrate | 1 gal |
| 097667093 | 7X Concentrate | 1 gal |

Find more information at mpbio.com/7X

Surface Cleaners

DNA-Erase™: A cleaning solution for removing DNA contamination and eliminating PCR artifacts from all laboratory surfaces, including benchtops, apparatus and pipettors.

RNase ERASE™: A novel RNase decontamination solution. Completely removes RNase contamination from glass and plastic surfaces, pipettes, and equipments that must be RNase-free.



| Cat. No. | Description | Pack Size |
|----------|--------------|-----------|
| 04821805 | DNA-Erase™ | 500 mL |
| 04821682 | RNase ERASE™ | 250 mL |

Water, DNase, RNase-FREE

Designed for critical applications where DNase and RNase contamination can be serious problems!

Deionized water treated with 0.001% diethylpyrocarbonate (DEPC). Filtered through 0.2 micron filter and autoclaved to yield a sterile solution completely free of detectable DNase (both exo and endo) and RNase.

| Cat. No. | Description | Pack Size |
|----------|--------------------------|-----------|
| 04821739 | Water, DNase, RNase-FREE | 500 mL |



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SafTest Analyzer System

Rapid evaluation of fat quality; Consistent, reliable results; Versatile and easy to use

The SafTest Touch-screen based protocols with ready-to-use kits makes determination of:

- Peroxide Value
- Free Fatty Acids
- Malonaldehyde
- Alkenal
- Percent Fat

The SafTest platform is a complete turn-key system for all of your food quality testing needs. Furthermore, the SafTest is the only analytical platform which uses non-toxic or unfriendly organic solvents in conjunction with its ability to perform a wide variety of food quality tests.



| Cat. No. | Description |
|----------|---|
| 07SI2020 | Solid Sample Instrumentation Platform for Peroxide and Alkenal |
| 07SI2000 | Solid Sample Instrumentation Platform for Free Fatty Acid, Malonaldehyde, Percent Fat, and Total Glycerin |
| 07SC2000 | Solid Sample Consumables Platform for all kits |
| 07LI2020 | Liquid Sample Instrumentation Platform for Peroxide and Alkenal |
| 07LI2000 | Liquid Sample Instrumentation Platform for Free Fatty Acid, Malonaldehyde, Percent Fat and Total Glycerin |
| 07LC2000 | Liquid Sample Consumables Platform for all Kits |

SafTest Kits

MP SafTest Kits offer distinct advantages for quality testing, including:

- Quick results, typically 10-30 minutes, compared to traditional methods
- Kits include all reagents, calibrators, and controls required for 110-120 tests



| Cat. No. | Description | Pack Size |
|-------------------|--------------------------|-----------|
| NC1185400 | Peroxide Test Kit | 100 preps |
| Awaiting CAT No. | Free Fatty Acid Test Kit | 100 preps |
| Awaiting CAT No.. | Malonaldehyde Test Kit | 100 preps |
| Awaiting CAT No. | Alkenal Test Kit | 100 preps |
| Awaiting CAT No. | Percent Fat Test Kit | 100 preps |
| Awaiting CAT No. | Total Glycerin Test Kit | 100 preps |

Customized Animal Research Diets Delivered Fresh to Your Lab!

MP Biomedicals has over five decades of experience in customized animal research diets and more than 15,000 successful custom formulations. We specialize in mineral and vitamin deficient diets. Upon request, we can easily change any combination of components in our existing diets or design a custom diet to your exact specifications. Each diet is produced specifically to your order.

The package size as well as the content of prepared diets is designed to meet the researchers' needs. Formulas are available in sizes as small as 1 kg to as large as several tons.

To ensure freshness, all diets are formulated upon receipt of order—no diets are kept in stock so they are always fresh. Diet pellets are available in a choice of three sizes and can be colored-coded to ease control of administration. In addition, MP is geared for quick turn around. For example, made-to-order standard diets are typically shipped within 7 days. It is our primary goal to assure that your diet arrives fresh: when you need it.

| Cat. No. | Vitamin Mixes |
|----------|--------------------------------|
| 02905454 | AIN 76 Vitamin Mix |
| 02960098 | AIN 76A Vitamin Mix |
| 02960402 | AIN 93 Vitamin Mix |
| 02904654 | Vitamin Diet Fortification Mix |
| 02903244 | Vanderzant Vitamin Mix |

| Cat. No. | Common Formulations |
|----------|-------------------------------|
| 02900454 | Alphacel Hydrolyzed |
| 02900453 | Alphacel Non Nutritive Bulk |
| 02903312 | Brewers Yeast |
| 02960128 | Casein Low Trace Element |
| 02901293 | Casein Purified High Nitrogen |
| 02904520 | Casein Vitamin Free |
| 02905417 | Cocoa Butter |
| 02901403 | Coconut Oil |
| 02901404 | Coconut Oil Hydrogenated |
| 02901405 | Cod Liver Oil |
| 02901411 | Corn Ground Yellow |
| 02901414 | Corn Oil |
| 02901415 | Corn Oil Tocopherol Stripped |
| 02901419 | Cottonseed Oil |
| 02190955 | DL Methionine |
| 02901520 | Dextrin White |
| 02960429 | Dextrinized Corn Starch |
| 02901521 | D-(+)- Dextrose Anhydrous |
| 02905594 | Dextrose Monohydrate |

| Cat. No. | Common Formulations |
|----------|--------------------------|
| 02901633 | Egg white Spray Dried |
| 02902140 | Lard |
| 02902141 | Lard Tocopherol Stripped |
| 02900396 | Liver Powder |
| 02960120 | Menhaden Oil |
| 02902363 | Milk Powder Whole |
| 02902887 | Milk Powder skim |
| 02904684 | Peanut Oil |
| 02960024 | Soybean meal Defatted |
| 02104687 | Soybean Oil |
| 02902940 | Soybean Protein |
| 02905456 | Soy Protein Isolated |
| 02902956 | Starch Corn |
| 02904713 | Sucrose |
| 02903085 | Torula Yeast |
| 02903288 | Wheat Germ |
| 02103287 | Wheat Germ Oil |
| 02101815 | Wheat Gluten |

| Cat. No. | Mineral Mixes |
|----------|----------------------------|
| 02960400 | AIN 93G Mineral Mix |
| 02902844 | Salt Mix Phillips and Hart |
| 02960401 | AIN 93M Mineral Mix |
| 02902842 | Salt Mix Rogers and Harper |
| 02905455 | AIN 76 Mineral Mix |
| 02902845 | Salt Mix #2 USP XIII |

| Cat. No. | Mineral Mixes |
|----------|---|
| 02902843 | Bernhart Tomarelli Salt Mix |
| 02902850 | Salt Mix USP XIV |
| 02902834 | Salt Mixture Briggs |
| 02960352 | Sodium Free Salt Mix for Rat Modified |
| 02960285 | Guinea Pig Mineral Mix |
| 02902851 | Salt Mix W |
| 02902840 | Salt Mix Hegsted |
| 02902837 | Salt mix Williams-Briggs |
| 02902838 | Salt Mix HMW |
| 02960264 | Trace Minerals for an Ultra-clean Environment |
| 02902110 | Jones and Foster Salt Mix |



Environmentally Safe Liquid Scintillation Cocktails!

MP Biomedicals delivers a complete line of Environmentally Safe* LS cocktails formulated for specific applications and maximum performance. Whether the requirements call for a general purpose cocktail or a large volume cocktail, MP offers a non-hazardous, non-toxic, ready-to-use formulation custom tailored to your needs.



- Biodegradable
- Non-Toxic
- Non-Hazardous
- One-Step, Ready-To-Use

**MP Biomedicals liquid scintillation cocktails are environmentally safe in accordance with EPA regulations (Resources Conservation and Recovery Act, Title 40, CFR 260-263)*

| Cat. No. | Quantity |
|----------|-----------|
| 88245301 | 1 gal |
| 88245304 | 4 x 1 gal |
| 88245305 | 5 gal |

CytoScint™ ES

The highest tritium performance and one-step counting of filters, TLC scrapings and other solubilized samples without pretreatment, CytoScint™ is the ideal choice. It is also excellent for small volume aqueous samples, and it requires no waiting on chemiluminescence.

| Cat. No. | Quantity |
|----------|-----------|
| 88002001 | 1 gal |
| 88002004 | 4 x 1 gal |
| 88002005 | 5 gal |

BetaMax™ ES

This formulation provides maximum efficiency of beta particle counting for non-aqueous samples, samples dried on solid supports and organic samples extracted from aqueous mixtures.

| Cat. No. | Quantity |
|----------|-----------|
| 88247001 | 1 gal |
| 88247004 | 4 x 1 gal |
| 88247005 | 5 gal |

EcoLume™

EcoLume™ provides maximum efficiency for large aqueous and organic volume samples including deionized water, PBS, HCl, urine and many others. It will not gel or phase with the addition of sample to maximum load capacity, even when it exceeds 30% by volume.

| Cat. No. | Quantity |
|----------|-----------|
| 88248001 | 1 gal |
| 88248004 | 4 x 1 gal |
| 88248005 | 5 gal |

UniverSol™ ES

This LSC provides maximum efficiency of the “gelling” variety. As a traditional “dual phase” cocktail, UniverSol™ ES is formulated to work over a wide variety of requirements, and when diluted with water, allows concentrated solutions which normally precipitate to be counted as clear homogenous solutions.

| Cat. No. | Quantity |
|----------|-----------|
| 88247501 | 1 gal |
| 88247504 | 4 x 1 gal |
| 88247505 | 5 gal |

EcoLite (+)™

An all-purpose LSC with exceptional water and salt holding characteristics for virtually all aqueous and non-aqueous samples, EcoLite(+)[™] is particularly useful for HPLC fractions, urea, phosphate buffers, protein digests, urine, difficult RIA samples and many other procedures where maximum solubilization and a stable counting solution are critical.

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