

TISSUE CULTURE REAGENTS, SUPPLEMENTS AMINO ACIDS & OTHER RELATED BIOCHEMICALS



Reagents and Supplements

Biological Industries' reagents and supplements are specifically designed for cell culture allowing for the growth and propagation of a wide spectrum of cell types under controlled conditions. In vitro cell culture systems provide the researcher with the appropriate means for effectively studying cell growth and differentiation, in order to understand the cellular response to specific environmental stimuli. Each and every cell culture system is designed to meet its nutritional and metabolic niche requirements once a basic medium is chosen. In order to realize maximum yields, the cell culture must have a large reserve of not only the basic nutrients, but also the essential requirements which provide an energy source, amino acids, vitamins and other various supplementations to enhance cell growth and performance. Biological Industries' reliable and proven products will help you reach your goals.

Biological Industries' products are not only well-known in many medical centers and hospitals nationally and internationally, but also in many prominent and renowned research laboratories in such diverse fields as cell culture and biology, immunology and oncology, virology, microbiology and parasitology, as well as in vitro fertilization among many other specialized fields. Customized solutions and media formulations are manufactured to exact specifications under strict and rigorous Quality Assurance/Quality Control Guidelines and supplied to numerous biotech and biopharmaceutical firms and corporations, from small-volume to large-scale operations, in order to meet your needs and requirements. All media are performance tested with applicable documentation that meets international standards, in order to ensure lot-to-lot uniformity and the highest quality. Bulk pricing is available upon request.

The following is a list of reagents and supplements that all undergo extensive and vigorous Quality Control Protocols.

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| Product Name | Concentration | Catalogue No. | Unit Size | Storage Temp. | Formulation Page |
|----------------------------------------------------------------------------------------------|---------------|---------------|-----------|---------------|------------------|
| BME Amino Acids Solution Without L-Glutamine | 100X | 01-315-1B | 100ml | 2-8°C | + |
| BME Vitamins Solution | 100X | 01-316-1B | 100ml | -20°C | + |
| MEM Amino Acids Solution Without L-Glutamine | 50X | 01-325-1B | 100ml | 2-8°C | |
| MEM Vitamins Solution | 100X | 01-326-1B | 100ml | -20°C | + |
| MEM Non-Essential Amino Acids Solution | 100X | 01-340-1B | 100ml | 2-8°C | + |
| Ribonucleosides and Deoxyribonucleosides for MEM-Alpha | 500X | 01-343-1D | 10ml | -20°C | + |
| Lactalbumin Hydrolysate Solution, 166.6 gr/liter | 50X | 01-356-1B | 100ml | 2-8°C | |
| Yeastolate Solution, 166.6 gr/liter | 50X | 01-357-1B | 100ml | 2-8°C | |
| Human Recombinant Insulin Solution (3.7 mg/ml) | 100 Units/ml | 01-818-1H | 5ml | 2-8°C | |
| Gelatin Solution* | 0.1% | 01-944-1A | 500ml | 2-8°C | |
| | | 01-944-1B | 100ml | 2-8°C | |
| Bovine Albumin Solution, Fraction V in saline | 10% | 03-010-1B | 100ml | -20°C | |
| Ethylenediaminetetraacetic Acid (EDTA) Disodium Salt Solution, in DPBS | 0.05% | 03-015-1B | 100ml | AMB | |
| L-Glutamine Solution, 29.2mg/ml in Saline | 200mM | 03-020-1A | 500ml | -20°C | |
| | | 03-020-1B | 100ml | -20°C | |
| | | 03-020-1C | 20ml | -20°C | |
| L-Alanyl L-Glutamine (Stable Glutamine)** | 200 mM | 03-022-1B | 100ml | -20°C | |
| | | 03-022-1C | 20ml | -20°C | |
| HEPES Buffer Solution, pH 7.3 at 37°C | 1M | 03-025-1B | 100ml | AMB | |
| | | 03-025-1C | 20ml | AMB | |
| Sodium Bicarbonate Solution | 7.5% | 03-040-1A | 500ml | AMB | |
| | | 03-040-1B | 100ml | AMB | |
| Sodium Bicarbonate Solution | 5% | 03-041-1A | 500ml | AMB | |
| | | 03-041-1B | 100ml | AMB | |
| Sodium Pyruvate Solution, 11.0mg/ml | 100mM | 03-042-1B | 100ml | -20°C | |
| Water, Cell Culture Grade | | 03-055-1A | 500ml | AMB | |
| SPGA Solution | | 03-060-1A | 500ml | -20°C | |
| HAT Supplement, (Hypoxanthine 680.5mg/l, Aminopterin 8.81mg/l, Thymidine 193.8mg/l), in DPBS | 50X | 03-080-1B | 100ml | -20°C | |
| | | 03-080-1C | 20ml | -20°C | |
| HT Supplement (Hypoxanthine 680.5mg/l, Thymidine 193.8mg/l), in DPBS | 50X | 03-085-1B | 100ml | -20°C | |
| | | 03-085-1C | 200ml | -20°C | |
| Fibronectin Solution (Bovine)*** | 1mg/ml | 03-090-1-01 | 1ml | 2-8°C | |
| | | 03-090-1-05 | 5ml | 2-8°C | |
| Phenol Red Solution, in DPBS | 5mg/ml | 03-100-1B | 100ml | AMB | |
| Trypan Blue Solution, in Saline | 5mg/ml | 03-102-1B | 100ml | AMB | |



Cell Culture-Tested Biochemicals

| Product Name | Catalogue No. | Unit Size |
|---------------------------------------|---------------|-----------|
| L-Alanine | 41-239-25 | 25 gr |
| | 41-239-100 | 100 gr |
| L-Arginine Free Base | 41-219-25 | 25 gr |
| | 41-219-100 | 100 gr |
| L-Arginine Hydrochloride | 41-201-25 | 25 gr |
| | 41-201-100 | 100 gr |
| L-Asparagine Monohydrate | 41-215-25 | 25 gr |
| | 41-215-100 | 100 gr |
| L-Aspartic Acid | 41-216-25 | 25 gr |
| | 41-216-100 | 100 gr |
| L-Cysteine Hydrochloride Hydrate | 41-241-25 | 25 gr |
| | 41-241-100 | 100 gr |
| L-Cystine | 41-223-25 | 25 gr |
| | 41-223-100 | 100 gr |
| L-Glutamic Acid | 41-217-25 | 25 gr |
| | 41-217-100 | 100 gr |
| L-Glutamine | 41-218-25 | 25 gr |
| | 41-218-100 | 100 gr |
| Glycine | 41-202-25 | 25 gr |
| | 41-202-100 | 100 gr |
| L-Histidine Hydrochloride Monohydrate | 41-203-25 | 25 gr |
| | 41-203-100 | 100 gr |
| L-Isoleucine | 41-204-25 | 25 gr |
| | 41-204-100 | 100 gr |
| L-Leucine | 41-205-25 | 25 gr |
| | 41-205-100 | 100 gr |
| L-Lysine Monohydrochloride | 41-206-25 | 25 gr |
| | 41-206-100 | 100 gr |
| L-Methionine | 41-207-25 | 25 gr |
| | 41-207-100 | 100 gr |
| L-Phenylalanine | 41-208-25 | 25 gr |
| | 41-208-100 | 100 gr |
| L-Proline | 41-221-25 | 25 gr |
| | 41-221-100 | 100 gr |
| L-Serine | 41-209-25 | 25 gr |
| | 41-209-100 | 100 gr |
| L-Threonine | 41-210-25 | 25 gr |
| | 41-210-100 | 100 gr |

| Product Name | Catalogue No. | Unit Size |
|---------------------------------------------|---------------|-----------|
| L-Tryptophan | 41-211-25 | 25 gr |
| | 41-211-100 | 100 gr |
| L-Tyrosine | 41-222-25 | 25 gr |
| | 41-222-100 | 100 gr |
| L-Valine | 41-212-25 | 25 gr |
| | 41-212-100 | 100 gr |
| Bovine Serum Albumin Fraction V | 41-903-25 | 25 gr |
| | 41-903-100 | 100 gr |
| EDTA Disodium Dihydrate | 41-922-25 | 25 gr |
| | 41-922-100 | 100 gr |
| Gentamycin Sulfate | 41-503-1 | 1 gr |
| | 41-503-5 | 5 gr |
| Glucose Anhydrous | 41-302-500 | 500 gr |
| Hepes | 41-122-25 | 25 gr |
| | 41-122-100 | 100 gr |
| Insulin, Human Recombinant | 41-975-100 | 100 mg |
| Kanamycin Sulfate | 41-507-1 | 1 gr |
| | 41-507-5 | 5 gr |
| MOPS | 41-811-50 | 50 gr |
| | 41-811-100 | 100 gr |
| Neomycin Sulfate | 41-505-1 | 1 gr |
| | 41-505-5 | 5 gr |
| Nystatin | 41-506-1 | 1 gr |
| | 41-506-5 | 5 gr |
| Penicillin G Sodium | 41-501-10 | 10gr |
| | 41-501-25 | 25 gr |
| | 41-501-100 | 100 gr |
| Streptomycin Sulfate | 41-502-25 | 25 gr |
| | 41-502-100 | 100 gr |
| Collagen Type I, Rat Tail | 41-843-25 | 25mg |
| | 41-843-100 | 100mg |
| Transferrin, Human, Substantially Iron-Free | 41-951-100 | 100 mg |
| | 41-951-500 | 500 mg |
| Transferrin, Human, Iron-Saturated | 41-952-100 | 100 mg |
| | 41-952-500 | 500 mg |
| Trypsin, Porcine Pancreas (1:250) | 41-920-25 | 25 gr |
| | 41-920-100 | 100 gr |

These chemicals are regularly being used by Biological Industries for manufacturing of cell culture products and can be purchased separately.