

2000
2001

ALPHABETICAL
LIST

BIOACTIVE
PEPTIDES

IMMUNOCHEMICALS

MOLECULAR
BIOLOGY

NEUROSCIENCE
AND SIGNAL
TRANSDUCTION

TISSUE CULTURE

OTHER PRODUCT
GROUPS / USP

EQUIPMENT / BOOKS
AND SUPPLIES

DIAGNOSTIC KITS
AND REAGENTS

PRODUCT INDEX

Biochemicals and Reagents

FOR LIFE SCIENCE RESEARCH



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The Sigma Creed

- Let No Non-Profit research organization anywhere in the world, suffer for lack of Sigma Reagents.
- Let No One have cause to say a Sigma Product was misrepresented.
- Let No One have cause to say that Sigma was not More Than fair, friendly, reasonable, and cooperative in every way.
- Let No One have cause to say that a Sigma Product was not absolutely the finest available anywhere.
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- As Long as we have the funds, no legitimate call for help will be disregarded.

THE ABOVE CREED WAS PUBLISHED MANY YEARS AGO WHEN RESEARCH WAS GENERALLY CARRIED OUT IN "RESEARCH ORGANIZATIONS." THE CURRENT TREND WITHIN PREPARATORY SCHOOLS, HOSPITALS, AND CLINICS TO DO "RESEARCH" AS A TEACHING FUNCTION OR AS A PART-TIME EXERCISE, HAS CREATED A DEMAND FOR SIGMA-FINANCING NOT INTENDED TO BE COVERED BY THIS CREED. HOWEVER, SPECIFIC INQUIRIES ARE INVITED.

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COMPOUNDS

ALPHABETICAL LIST OF COMPOUNDS

t-BOC-Nγ-XANTHYL-ASPARAGINE 55420-40-8] C ₂₂ H ₂₄ N ₂ O ₆ FW 412.4	5 g	47.40
t-BOC-Nδ-XANTHYL-GLUTAMINE 55240-24-7] C ₂₃ H ₂₆ N ₂ O ₆ FW 426.5	5 g	41.40
LDINE Contains \leq 1% isopropanol [476-70-0] C ₁₉ H ₂₁ NO ₄ FW 327.4 R: 22-36/37/38 S: 26-36	1 g 5 g	10.90 42.10

ILTON-HUNTER REAGENT See: 3-(p-Hydroxyphenyl)propionic Acid N-Hydroxysuccinimide Ester Page 546
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IMBESIN See: Bioactive Peptides Page 1050

JNE MARROW MEDIA See: Tissue Culture Media and Reagents Page 1778

BOOKS

Over 400 technical reference works on a wide range of topics:

- Amino Acids/Peptides
- Biotechnology/Molecular Biology
- Cell/Tissue Culture
- Chromatography
- Clinical Chemistry
- Computer Techniques
- Dyes and Stains
- Electrophoresis
- Enzymology
- General References
- Immunocytochemistry/Immunology
- Lipid Chemistry
- Microbiology
- Microscopy
- Neurobiology/Neurochemistry
- Organic Chemistry
- Pesticides
- Pharmacology/Toxicology
- Protein Chemistry/Isolation
- Safety & Hazard
- Selected Techniques
- Selected Topics
- Spectra

See the Techware Section Page 2182

BOP REAGENT See: Benzotriazolyl-N-oxy-tris(dimethylamino)-phosphonium Hexafluorophosphate Page 154
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9-BORABICYCLO[3.3.1]NONANE See: 9-BBN Dimer Page 156
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BORAGE OIL From <i>Borago officinalis</i> seeds Contains 20-25% γ -linolenic acid (as triglycerides). See also: Evening Primrose Oil Page 413 Fungal Lipid Page 443 [84012-16-8]	100 g	46.00
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BORAX (Sodium tetraborate)		
B 3545 Decahydrate SigmaUltra 99.5-105.0% Solubility (0.1 M in water, 20°C): complete, colorless Insoluble matter: <0.1% Cl: <0.05% SO ₄ : <0.05% Al: <0.0005% Ca: <0.0005% Cu: <0.0005% Fe: <0.001% [1303-96-4] Na ₂ B ₄ O ₇ • 10H ₂ O FW 381.4 R: 63-62-36/37/38 S: 45-26-36/37/39-22	500 g 1 kg	26.30 34.60

B 9876 Decahydrate 99.5-105.0% Widely used as a buffer. pH of a solution is approx. 9.3 over a wide range of concentrations. [1303-96-4] Na ₂ B ₄ O ₇ • 10H ₂ O FW 381.4 R: 63-62-36/37/38 S: 45-26-36/37/39-22	500 g 1 kg 5 kg	12.80 16.80 46.40
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B 0127 Anhydrous Minimum 99.0% [1330-43-4] Na ₂ B ₄ O ₇ FW 201.2 R: 63-62-36/37/38 S: 45-26-36/37/39-22	100 g 500 g 1 kg	13.80 29.50 50.00
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BORDET GENGOU AGAR BASE See: Microbiological Media and Components Page 2070

BORDET GENGOU AGAR BASE WITH 1.6% AGAR See: Microbiological Media and Components Page 2070
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BORDET GENGOU AGAR BASE WITHOUT PEPTONE See: Microbiological Media and Components Page 2070

BORIC ACID [110043-35-3] H ₃ BO ₃ FW 61.83 R: 63-62-36/37/38 S: 45-26-36/37/39-22
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B 7660 SigmaUltra Minimum 99.5% pH (1 M in water, 20°C): 3.5-6.0 Solubility (1 M in water, 20°C): complete, colorless Insoluble matter: <0.1% Chloride (Cl): <0.05% Sulfate (SO ₄): <0.05% Al: <0.0005% Ca: <0.0005% Cu: <0.0005% Fe: <0.0005% K: <0.0005% Mg: <0.0005% Na: <0.0005% NH ₄ ⁺ : <0.05% P: <0.0005% Pb: <0.001% Zn: <0.0005% A ₂₆₀ <0.05; A ₂₈₀ <0.05 (1 M in water)	100 g 500 g 1 kg	18.70 33.40 50.50
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B 0252 Minimum 99.5% See also: Plant Cell Culture Reagents Page 1866	100 g 500 g 1 kg 2.5 kg 5 kg 10 kg	9.40 16.70 25.20 47.70 85.90 134.10
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B 0394 ACS Reagent Assay: \geq 99.5% Insoluble in methanol: \leq 0.005% Nonvolatile with methanol: \leq 0.05% Chloride (Cl): \leq 0.001% Phosphate (PO ₄): \leq 0.001% Sulfate (SO ₄): \leq 0.01% Calcium (Ca): \leq 0.005% Heavy metals (as Pb): \leq 0.001% Iron (Fe): \leq 0.001%	500 g 1 kg 5 kg	27.10 48.80 159.40
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BORIC ACID, Electrophoresis Reagent See: Electrophoresis Reagents Page 1967
BORIC ACID GEL See under: Affinity Chromatography Media Page 1950

BORIC ACID, Molecular Biology Reagent See: Molecular Biology Products Page 1624

B 2645 Boric Acid Contains 1 g boric acid per tablet. H ₃ BO ₃ FW 61.83 R: 63-62-36/37/38 S: 45-26-36/37/39-22	100 tablets 1,000 tablets	26.90 149.30
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BORIC ACID TRIMETHYL ESTER See: Trimethyl Borate Page 980

d-2,3-BORNANEDIONE See: (1S)(+)-Camphorquinone Page 200

B 7888 BORNEOL Approx. 85% [507-70-0] C ₁₀ H ₁₈ O FW 154.3 R: 11-20/21/22-43 S: 16-36	100 g 500 g	36.00 133.60
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(-)-BORNYL ACETATE B5,520-3 Approx. 97% (capillary GC) d = 0.98 g/ml Pheromone for <i>Periplaneta americana</i> . Aldrich Brand. Formerly Sigma Product B 6759. [5655-61-8]	100 g	19.20
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BORON B 3135 Practical Grade Amorphous powder [7440-42-8] B FW 10.81 R: 11-20/21/22-37 S: 16-36-3/7/9	100 g	97.50
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BORONIC ACID-AGAROSE See: m-Aminophenylboronic Acid-Agarose under Affinity Chromatography Media Page 1949

B 0877 BORON TRICHLORIDE-METHANOL 10% boron trichloride in methanol for preparing methyl esters of fatty acids and for transesterification of triglycerides. Sealed ampules. Shelf life is extended considerably in sealed ampules. [10294-34-5] R: 11-23/25-34 S: 7-16-24-45	5 ml 10 ml 25 ml	18.30 24.70 38.20
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BORON TRIFLUORIDE DIETHYL ETHERATE d = 1.15 g/ml [109-63-7] C ₄ H ₁₀ BF ₃ O FW 141.9 R: 10-34-23/24/25-14 S: 16-45-26-36/37/39

B 6261 Brown liquid [2-8°C]	100 ml 250 ml	17.50 21.20
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21,660-7 Redistilled Light yellow liquid. Aldrich Brand. Formerly Sigma Product B 8764.	100 ml	36.20
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BORON TRIFLUORIDE-METHANOL 14% boron trifluoride in methanol is useful for preparing methyl esters of fatty acids and for transesterification of triglycerides.

B 1127 14% solution in sealed ampule. Shelf life is extended considerably in sealed ampules. [373-57-9] R: 11-23/25-34 S: 7-16-24-45	5 ml 25 ml 10 x 5 ml	16.30 29.80 106.10
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B 1252 14% solution in bottle with screw-cap closure. [373-57-9] R: 11-23/25-34 S: 7-16-24-45	5 ml 100 ml 250 ml 500 ml	15.40 20.80 28.40 48.20
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(Continued)

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