

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.
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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 55220-24-7] 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
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- 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 100 g 46.00
9 From Borago officinalis seeds Contains 20-25% γ -linolenic acid (as triglycerides). See also: Evening Primrose Oil Page 413 Fungal Lipid Page 443 [84012-16-8]

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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		
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%	100 g 500 g 1 kg	18.70 33.40 50.50

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		
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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 Periplaneta americana. Aldrich Brand. Formerly Sigma Product B 6759. [5655-61-8]	100 g	19.20
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B 3135 BORON 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		
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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		
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B 6261 BORON TRIFLUORIDE DIETHYL ETHERATE Brown liquid [2-8°C] R: 11-23/25-34 S: 7-16-24-45	100 ml 250 ml	17.50 21.20
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21,660-7 BORON TRIFLUORIDE DIETHYL ETHERATE 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.		
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B 1127 BORON TRIFLUORIDE-METHANOL 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 BORON TRIFLUORIDE-METHANOL 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 1 liter	15.40 20.80 28.40 48.20 79.70
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(Continued)

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175

Metrics EX1023, Page 3