

**BIOCHEMICALS for Cell Culture**

Commonly used reagents in animal, plant and insect cell culture.

194602 0°C	<b>ACETYLCHOLINE CHLORIDE</b> [60-31-1] (Acecoline) <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: ~99%</b> C <sub>7</sub> H <sub>16</sub> NO <sub>2</sub> Cl MW 181.7	25 g 100 g
194603 0-5°C	<b>N-ACETYL-L-CYSTEINE</b> [616-91-1] <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: &gt;96%</b> A mucolytic agent for isolation of mycobacteria from sputum. C <sub>5</sub> H <sub>9</sub> NO <sub>3</sub> S MW 163.2	5 g 10 g 25 g 50 g 100 g 500 g
159030 -20°C	<b>N-ACETYL-S-FARNESYL-L-CYSTEINE</b> (AFC) <b>Purity: 98%</b> Specific inhibitor of S-farnesyl-cysteinemethyl transferase. Also prevents carboxyl methylation of p21 <sup>ras</sup> platelet RAP 1 and the transduction $\gamma$ subunit. <b>Ref.:</b> 1. Volker, C., et al., J. Biol. Chem., <b>266</b> , 21515 (1991). 2. Huzoor-Akabar, et al., <i>ibid.</i> , <b>266</b> , 4387 (1991). 3. Perez-Sala, D., et al., Proc. Natl. Acad. Sci. USA, <b>88</b> , 3043 (1991). MW 367.5	5 mg 25 mg
159845 -20°C	<b>N-ACETYL-S-GERANYLGERANYL-L-CYSTEINE</b> [139332-94-8] (AGGC) <b>Purity: 98%</b> Specifically inhibits methyl esterification of geranylgeranylated proteins. Also, it blocks signal transduction in human neutrophils that are receptor mediated. <b>Ref.:</b> 1. Phillips, M.R., et al., <i>Science</i> , <b>259</b> , 977 (1993). 2. Volker, C., et al., <i>FEBS Lett.</i> , <b>295</b> , 189 (1991). MW 435.7	5 mg 10 mg
194604 0-5°C	<b>N-ACETYL-D-GLUCOSAMINE</b> [7512-17-6] (2-Acetamido-2-deoxy-D-glucose) <b>Cell Culture Reagent</b> <b>Crystalline</b> C <sub>8</sub> H <sub>15</sub> NO <sub>6</sub> MW 221.2	5 g 25 g 100 g
158221 -20°C	<b>N-ACETYL-D-GLUCOSAMINYL-<math>\beta</math>-(1<math>\rightarrow</math>4)-N-ACETYLMURAMYL-L-ALANYL-D-ISOGLUTAMINE</b> (GMDP) <b>Purity: 98%</b> Lyophilized A novel synthetic analog of bacterial cell wall glycopeptide which acts as a modulator of humoral and cellular immunity reactions. Possesses immunoadjuvant and protective activity against bacterial and viral (including tumorigenic) infections. Differs from well-known muramyl peptides in that it contains GlcNAC attached to muramic acid via the $\beta$ -(1 $\rightarrow$ 4) glycosidic bond. Soluble in H <sub>2</sub> O, EtOH, MeOH, DMF, and physiological saline (1g/ml) <b>Ref.:</b> 1. Campbell, M.J., et al., J. Immunology, <b>145</b> , 1029 (1990). 2. Balitsky, K.P., et al., Int. J. Immunopharmacol., <b>11</b> , 429 (1989).	1 mg 5 mg
194605 0-5°C	<b>N-ACETYLNEURAMINIC ACID</b> [131-48-6] (Sialic Acid; NANA; Type IV) <b>Cell Culture Reagent</b> From <i>E. coli</i> White crystalline powder <b>Purity: <math>\geq</math>98%</b> C <sub>11</sub> H <sub>19</sub> NO <sub>9</sub> MW 309.3	10 mg 25 mg 100 mg 250 mg 500 mg 1 g

158923 -20°C	<b>N-ACETYL-D-SPHINGOSINE</b> [3102-57-6] (C <sub>2</sub> Ceramide; N-Ethanoyl-D-sphingosine; Acetyl ceramide) <b>Purity: 98%</b> Inhibitor of cell proliferation and inducer of monocytic differentiation of HL-60 cells. Stimulates cytosolic serine/threonine protein phosphatase in T9 cells at low concentrations. <b>Ref.:</b> 1. Kim, M.-Y., et al., J. Biol. Chem., <b>266</b> , 484 (1991). 2. Okazaki, T., et al., <i>ibid.</i> , <b>265</b> , 15823 (1990). 3. Dobrowsky, R.T. and Hannun, Y.A., et al., J. Biol. Chem., <b>267</b> , 5048 (1992). C <sub>20</sub> H <sub>39</sub> NO <sub>3</sub> MW 341.5	1 mg 5 mg
194606 RT	<b>ADENINE</b> [73-24-5] (6-Aminopurine) <b>Free Base</b> <b>Cell Culture Reagent</b> <b>Purity: 99%</b> Viral research reagent and blood preservative. C <sub>5</sub> H <sub>5</sub> N <sub>5</sub> MW 135.1	1 g 5 g 25 g 100 g
194608 RT	<b>ADENINE</b> [6055-72-7] (6-Aminopurine HCl) <b>Cell Culture Reagent</b> <b>Hydrochloride</b> C <sub>5</sub> H <sub>5</sub> N <sub>5</sub> • HCl MW 171.6	1 g 5 g 25 g 100 g
194607 RT	<b>ADENINE SULFATE</b> [6509-19-9] <b>Cell Culture Reagent</b> <b>Purity: 99%</b> <b>Hemisulfate</b> <b>Dihydrate</b> (C <sub>5</sub> H <sub>5</sub> N <sub>5</sub> ) <sub>2</sub> • 1/2H <sub>2</sub> SO <sub>4</sub> • H <sub>2</sub> O MW 404.4	5 g 25 g 100 g 500 g
100070 0-5°C	<b>ADENINE-9-<math>\beta</math>-D-ARABINOFURANOSIDE</b> [5536-17-4] (Ara-A; Arabinosyl-adenine; Vidarabine) <b>Crystalline</b> Reported to possess antiviral activity <sup>1</sup> and useful for metabolism studies <sup>2</sup> <b>Ref.:</b> 1. de Rudder, Privat de Garihe, Antimicrob. Ag. Chemother., 578 (1965). 2. Cancer Res., <b>24</b> , 1042 (1964). C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>4</sub> MW 267.2	100 mg 500 mg 1 g 5 g 10 g
194609 0°C	<b>ADENOSINE</b> [58-61-7] (9- $\beta$ -D-Ribofuranosyladenine) <b>Free Base</b> <b>Cell Culture Reagent</b> C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>4</sub> MW 267.2	1 g 5 g 25 g 100 g
194611 0°C	<b>ADENOSINE-5'-MONOPHOSPHATE</b> [4578-31-8] <b>From Equine Muscle</b> <b>Cell Culture Reagent</b> <b>Disodium Salt</b> <b>Crystalline</b> <b>Purity: 99-100%</b> C <sub>10</sub> H <sub>12</sub> N <sub>5</sub> Na <sub>2</sub> O <sub>7</sub> P MW 391.2	500 mg 1 g 10 g 25 g
194613 0°C	<b>ADENOSINE-5'-TRIPHOSPHATE</b> [51963-61-2] (ATP) <b>Disodium Salt</b> <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: ~99%</b> C <sub>10</sub> H <sub>14</sub> N <sub>5</sub> Na <sub>2</sub> O <sub>13</sub> P <sub>3</sub> MW 551.2	1 g 5 g 10 g
100252 RT	<b>ADONITOL</b> [488-81-3] (Ribitol) <b>Crystalline</b> C <sub>6</sub> H <sub>12</sub> O <sub>5</sub> MW 152.1	5 g 25 g 100 g



Biochemicals for Cell Culture

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194615 RT	<b>AGAR</b>	100 g
	[9002-18-0]	250 g
	<b>Cell Culture Reagent</b>	500 g
	<b>Powder</b>	1 kg
	<b>80-100 mesh</b>	5 kg

## AGAROSE

	[9012-36-6]	
	<b>Low Gel Temperature</b>	
	Electroendosmosis: 0.1	
	Gel Strength 1.5% solution: $\geq 550$ gm/cm <sup>2</sup>	
	Gel Temperature (1%): $< 30^{\circ}\text{C}$	
	A 1% solution remains fluid at $37^{\circ}\text{C}$ for up to 24 hours. Will set to a firm gel at $< 25^{\circ}\text{C}$ , and not remelt until temperatures exceed $65^{\circ}\text{C}$ . This ability to remain in solution at $30-37^{\circ}\text{C}$ allows a second digest on a restriction enzyme fragment without need to recover it from the gel. Agarose LGT is also preferred for studies of cellular antibody production and the Jerne Plaque assay of immune responses. Also used in agarose droplet macrophage inhibitory factor (MIF) assay.	
800257		25 g
800259		100 g

194616 RT	<b>DL-<math>\alpha</math>-ALANINE</b>	100 g
	[302-72-7]	500 g
	<b>Cell Culture Reagent</b>	1 kg
	<b>Crystalline</b>	
	$\text{C}_3\text{H}_7\text{NO}_2$ MW 89.1	

100287 RT	<b>L-ALANINE</b>	25 g
	[56-41-7]	100 g
	(2-Aminopropionic acid)	500 g
	<b>Crystalline</b>	1 kg
	<b>Purity: 99%</b>	5 kg
	$\text{C}_3\text{H}_7\text{NO}_2$ MW 89.1	

194618 RT	<b><math>\beta</math>-ALANINE</b>	100 g
	[107-95-9]	500 g
	(3-Aminopropionic acid)	
	<b>Cell Culture Reagent</b>	
	<b>Crystalline</b>	
	$\text{C}_3\text{H}_7\text{NO}_2$ MW 89.1	

191402 RT	<b>ALUMINUM POTASSIUM SULFATE, ACS</b>	100 g
	[7784-24-9]	500 g
	<b>ACS Reagent grade</b>	1 kg
	<b>Assay: 98.0-102.0%</b>	
	<b>Crystalline</b>	
	<b>Dodecahydrate</b>	
	$\text{AlK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ MW 474.4	

194120 0-5°C	<b>ALBUMIN, BOVINE</b>	25 mg
	[9048-46-8]	100 mg
	<b>Nuclease-Free</b>	250 mg
	<b>Purity: <math>\geq 90\%</math></b>	
	Contains no detectable exonuclease, endonuclease, ribonuclease, or protease activity. Some degradation products may exist.	
Supplied as an aqueous solution in 50% glycerol at a concentration of 50 mg/ml at neutral pH.		

105033 0-5°C	<b>ALBUMIN, BOVINE</b>	10 g
	[9048-46-8]	25 g
	<b>Clinical Reagent Grade</b>	100 g
	<b>RIA Grade</b>	500 g
	<b>Purity: 98-99%</b>	
A fatty acid free bovine albumin powder designed for the most sensitive research and diagnostic applications. Manufactured by a process specifically designed to give consistently low levels of residual metabolites and enzymes. Especially suitable for RIA and enzyme kits as a protein base.		
Insulin RIA: $< 1$ micro unit/gm		
$\text{T}_3$ and $\text{T}_4$ at or below detectable levels		
pH: $7.0 \pm 0.2$		
Sulfated Ash: $< 2\%$		
Moisture: $< 5\%$		

194771 0-5°C	<b>ALBUMIN, BOVINE</b>	5 g
	[9048-46-8]	10 g
	<b>From Bovine Plasma</b>	50 g
	<b>Cell Culture Reagent</b>	100 g
	<b>Purity: 96-99%</b>	500 g

Prepared fresh by the Cohn cold ethanol fractionation method followed by crystallization at low temperature from an alcohol containing solution. The material is not heated at any stage in the process. It can be utilized as a nutrient for tissue culture, for preparation of protein standards, and as an antigen in immunological studies in sensitive research applications.  
pH 1% solution:  $5.2 \pm 0.2$   
Sulfated Ash:  $< 0.5\%$   
Carbohydrates:  $< 0.1\%$   
Moisture:  $< 5.2\%$

194773 0-5°C	<b>ALBUMIN, BOVINE</b>	5 g
	[9048-46-8]	
	<b>Cell Culture Reagent</b>	
	<b><math>\gamma</math>-Irradiated</b>	
	<b>Crystalline</b>	
	<b>Purity: 98-99%</b>	
	Essentially globulin-free	

194774 0-5°C	<b>ALBUMIN, BOVINE</b>	250 mg
	[9048-46-8]	1 g
	<b>Cell Culture Reagent</b>	5 g
	<b>Lyophilized</b>	10 g
	Essentially globulin-free	

194775 0-5°C	<b>ALBUMIN, BOVINE</b>	1 g
	[9048-46-8]	5 g
	<b>Cell Culture Reagent</b>	25 g
	<b>Powder</b>	100 g
	<b>Low Endotoxin</b>	
	Less than 0.1 ng/mg detectable endotoxin.	

194776 0-5°C	<b>ALBUMIN, BOVINE</b>	1 g
	[9048-46-8]	5 g
	<b>Cell Culture Reagent</b>	25 g
	<b>Low endotoxin</b>	
	<b>Powder</b>	
Prepared using a salt fractionation procedure with ion exchange chromatography.		
Less than 0.1 ng/mg endotoxin detectable.		

194772 0-5°C	<b>ALBUMIN, BOVINE</b>	1 g
	[9048-46-8]	5 g
	<b>Fraction V</b>	
	<b>Cell Culture Reagent</b>	
	<b>Fatty Acid Free</b>	
	<b>Low endotoxin</b>	
	Fatty acids content: $< 0.05$ mg/gm protein (0.005%).	

810101 0-5°C	<b>ALBUMIN, BOVINE</b>	50 ml
	<b>PATH-O-CYTE® 4 SOLUTION</b>	
	<b>Albumin Solution</b>	
	It can be used as a medium in density gradient centrifugation or as an addition to tissue culture growth medium.	
	Stable for at least 2 years at $5^{\circ}\text{C}$ .	

810111 0-5°C	<b>ALBUMIN, BOVINE,</b>	50 ml
	<b>PATH-O-CYTE® 5 SOLUTION</b>	
	<b>Albumin Solution</b>	
	It can be used as a medium in density gradient centrifugation or as an addition to tissue culture growth medium.	
	Stable at least 2 years at $5^{\circ}\text{C}$ .	

194619 RT	<b>p-AMINO BENZOIC ACID</b>	1 g
	[150-13-0]	5 g
	(PABA)	25 g
	<b>Free Acid</b>	100 g
	<b>Cell Culture Reagent</b>	
	White crystalline powder	
	<b>Purity: 99+%</b>	
	$\text{C}_7\text{H}_7\text{NO}_2$ MW 137.1	

194620 RT	<b>L-<math>\alpha</math>-AMINO-n-BUTYRIC ACID</b>	250 mg
	[1492-24-6]	1 g
	<b>Cell Culture Reagent</b>	5 g
	<b>Crystalline</b>	
	$\text{C}_4\text{H}_9\text{NO}_2$ MW 103.1	

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194621 0°C	<b>δ-AMINOLEVULINIC ACID</b> [5451-09-2] (5-Aminolevulinic acid) <b>Hydrochloride</b> <b>Cell Culture Reagent</b> <b>Purity: Approx. 98%</b> C <sub>5</sub> H <sub>9</sub> NO <sub>3</sub> • HCl MW 167.6	25 mg 100 mg 500 mg 1 g
194622 0-5°C	<b>AMINOPTERIN</b> [54-62-6] (4-Aminofolic acid; 4-Aminopteroyl- glutamic acid) <b>Cell Culture Reagent</b> <b>Purity: ~98%</b> C <sub>19</sub> H <sub>20</sub> N <sub>6</sub> O <sub>5</sub> MW 440.4	10 mg 25 mg 100 mg
194623 RT	<b>AMMONIUM CHLORIDE</b> [12125-02-9] <b>Cell Culture Reagent</b> <b>Crystalline</b> NH <sub>4</sub> Cl MW 53.5	100 g 500 g 1 kg
194624 RT	<b>AMMONIUM METAVANADATE</b> [7803-55-6] <b>Cell Culture Reagent</b> White to light yellow powder. NH <sub>4</sub> VO <sub>3</sub> MW 117	100 g 500 g
194625 0°C	<b>ARACHIDONIC ACID</b> [506-32-1] <b>Cell Culture Reagent</b> <b>Purity: 99%</b> Clear, colorless liquid which may develop a yellowish cast. C <sub>20</sub> H <sub>32</sub> O <sub>2</sub> MW 304.5	10 mg 50 mg 100 mg 500 mg
194626 RT	<b>L-ARGININE</b> [74-79-3] <b>Cell Culture Reagent</b> <b>Free Base</b> <b>Purity: 99%</b> C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> MW 174.2	25 g 100 g 500 g
194627 RT	<b>L-ARGININE</b> [1119-34-2] <b>Hydrochloride</b> <b>Cell Culture Reagent</b> <b>Crystalline</b> C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> • HCl MW 210.7	25 g 100 g 500 g 1 kg
194586 RT	<b>L-ASCORBIC ACID</b> [50-81-7] (Vitamin C) <b>Cell Culture Reagent</b> γ-Irradiated <b>Crystalline</b> Approx. 325 mesh C <sub>6</sub> H <sub>8</sub> O <sub>6</sub> MW 176.1	100 mg
194629 RT	<b>L-ASCORBIC ACID</b> [134-03-2] <b>Sodium Salt</b> <b>Cell Culture Reagent</b> <b>Purity: 99%</b> C <sub>6</sub> H <sub>7</sub> O <sub>6</sub> Na MW 198.1	100 g 500 g 1 kg
194630 RT	<b>L-ASPARAGINE</b> [70-47-3] <b>Cell Culture Reagent</b> <b>Anhydrous</b> <b>Crystalline</b> <b>Purity: 99%</b> C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> MW 132.1	25 g 100 g 500 g

194631 RT	<b>L-ASPARAGINE</b> [5794-13-8] <b>Cell Culture Reagent</b> <b>Monohydrate</b> <b>Crystalline</b> <b>Purity: 99+%</b> C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> • H <sub>2</sub> O MW 150.1	25 g 100 g 500 g 1 kg
194632 RT	<b>DL-ASPARTIC ACID</b> [617-45-8] <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: 99+%</b> C <sub>4</sub> H <sub>7</sub> NO <sub>4</sub> MW 133.1	100 g
194633 RT	<b>L-ASPARTIC ACID</b> [56-84-8] <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: 99+%</b> C <sub>4</sub> H <sub>7</sub> NO <sub>4</sub> MW 133.1	100 g 500 g 1 kg 5 kg
159838 0-5°C	<b>ATROPORIN</b> From <i>Crotalus atrox</i> (Western Diamondback Rattlesnake) Purified by SDS-PAGE, giving one band Atroporin is an anti-cancer protein. Has been shown to kill various types of cancer cells in vitro (10 <sup>5</sup> cells in culture) with a concentration of only 0.5 μg Atroporin, but has no effect on normal mouse kidney, spleen and liver cells in concentrations as high as 5 μg. Prevents, and causes regression of ascitic tumors formed by mouse myeloma cells. Shows enhanced cytolytic activity when used in combination with Kaotree. MW ~35 kDa	10 μg 50 μg
194634 0-5°C	<b>D-BIOTIN</b> [22879-79-4] (Vitamin H) <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Ref.:</b> Knappe, J., (1970). <i>Annu. Review, Biochem.</i> , <b>39</b> , 757-76; Bayer, E. and Uilchek, M., (1974), <i>Methods Enzymol.</i> , <b>34</b> , 265-7. C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S MW 244.3	500 mg 1 g 5 g
100383 0-5°C	<b>CALCIFEROL, U.S.P.</b> [50-14-6] <b>Crystalline</b> Ergocalciferol: Vitamin D <sub>2</sub> Protect from light and air 40 units Vitamin D/μg C <sub>28</sub> H <sub>44</sub> O MW 396.7	1 g 5 g 25 g
101196 0-5°C	<b>CALCIFEROL, U.S.P.</b> [50-14-6] Irradiated Ergosterol, Vitamin D <sub>2</sub> Adjusted to yield 850,000 I.U./g C <sub>28</sub> H <sub>44</sub> O MW 396.7	1 g 5 g 25 g
191413 RT	<b>CALCIUM CARBONATE, ACS</b> [471-34-1] <b>ACS Reagent Grade</b> <b>Purity: &gt;99%</b> <b>Crystalline</b> CaCO <sub>3</sub> MW 100.1	100 g 500 g 1 kg
194635 RT	<b>CALCIUM CHLORIDE</b> [10035-04-8] <b>Cell Culture Reagent</b> <b>Dihydrate</b> <b>Purity: ~99%</b> CaCl <sub>2</sub> • 2H <sub>2</sub> O MW 147	500 g 1 kg 5 kg
193800 RT	<b>CALCIUM NITRATE</b> <b>ULTRA PURE</b> [13477-34-4] <b>Ultra Pure Reagent</b> <b>Tetrahydrate</b> <b>Purity: ≥98%</b> Ca(NO <sub>3</sub> ) <sub>2</sub> • 4H <sub>2</sub> O MW 236.2	100 g 500 g 1 kg



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193806 RT	<b>CALCIUM PHOSPHATE</b> [12167-74-7] Tribasic Cell Culture Reagent Ca <sub>5</sub> HO <sub>13</sub> P <sub>3</sub> MW 502.3	25 g 100 g 500 g
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904520 RT	<b>CASEIN</b> [68308-23-6] Vitamin Free From New Zealand Lactic Acid Precipitated casein, extracted with ethyl alcohol	1 lb 5 lb 25 lb 100 lb
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904798 RT	<b>CASEIN</b> [68308-23-6] Vitamin Free Micropulverized	1 lb 5 lb 25 lb
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194636 RT	<b>CHOLESTEROL</b> [57-88-5] Cell Culture Reagent Purity: ≥99% C <sub>27</sub> H <sub>46</sub> O MW 386.7	1 g 5 g 25 g 100 g
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194637 RT	<b>CHOLIC ACID</b> [361-09-1] (Cholic acid; 3α,7α, 12α-Trihydroxycholan-24-oic acid) Sodium Salt Cell Culture Reagent Biochemical solubilizing agent C <sub>24</sub> H <sub>39</sub> O <sub>5</sub> Na MW 430.6	10 g 25 g 100 g 500 g
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194638 RT	<b>CHOLINE BITARTRATE</b> [87-67-2] Cell Culture Reagent Purity: 98+% Crystalline C <sub>5</sub> H <sub>14</sub> NO • C <sub>4</sub> H <sub>5</sub> O <sub>6</sub> MW 253.3	25 g 100 g
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194639 RT	<b>CHOLINE CHLORIDE</b> [67-48-1] Cell Culture Reagent Purity: 99% C <sub>5</sub> H <sub>14</sub> NOCl MW 139.6	100 g 500 g 1 kg
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194640 0-5°C	<b>CHOLINE DIHYDROGEN CITRATE</b> [77-91-8] Cell Culture Reagent Crystalline Purity: 99% C <sub>5</sub> H <sub>14</sub> NO • C <sub>6</sub> H <sub>7</sub> O <sub>7</sub> MW 295.3	100 g 500 g 1 kg
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194641 RT	<b>CITRIC ACID</b> [77-92-9] Cell Culture Reagent Anhydrous Crystalline C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> MW 192.1	100 g 500 g 1 kg
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102900 RT	<b>CITRIC ACID</b> [68-04-2] (Sodium citrate) Trisodium Salt Crystalline Dihydrate C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> Na <sub>3</sub> • 2H <sub>2</sub> O MW 294.1	100 g 500 g 1 kg 5 kg
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194642 RT	<b>COBALT CHLORIDE</b> [7791-13-1] Cell Culture Reagent Hexahydrate CoCl <sub>2</sub> • 6H <sub>2</sub> O MW 237.9	25 g 100 g 250 g
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**Coccarboxylase See: Thiamine Pyrophosphate Chloride**

100493 0°C	<b>COENZYME A</b> [18439-24-2] Trilithium salt Dihydrate Chromatographically homogenous Total CoA: 96+% C <sub>21</sub> H <sub>33</sub> Li <sub>3</sub> N <sub>7</sub> O <sub>16</sub> P <sub>3</sub> S • 2H <sub>2</sub> O MW 821.3	10 mg 25 mg 50 mg 100 mg 250 mg 500 mg 1 g
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194981 -20°C	<b>CONALBUMIN</b> [1391-06-6] (Ovotransferrin) From Chicken Egg Binding protein which can transport metal ions such as Cu <sup>2+</sup> , Fe <sup>2+</sup> , Mn <sup>2+</sup> , and Zn <sup>2+</sup> . Purity: >95% Ref.: Szekacs, A., et al., Anal. Biochem., 207, 291 (1992). MW 76 kDa	50 mg 250 mg
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194644 RT	<b>CUPRIC CHLORIDE</b> [10125-13-0] Dihydrate Cell Culture Reagent CuCl <sub>2</sub> • 2H <sub>2</sub> O MW 170.5	100 g 500 g 1 kg
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194645 RT	<b>CUPRIC SULFATE</b> [7758-99-8] Cell Culture Reagent Pentahydrate Crystalline Purity: ≥99% CuSO <sub>4</sub> • 5H <sub>2</sub> O MW 249.68	250 g 500 g 1 kg
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190052 RT	<b>α-CYCLODEXTRIN</b> [10016-20-3] (Schardinger α-Dextrin) Reported useful for the selective precipitation of enantiomeric, positional or structural isomers. Ref.: (1) Applications of cyclodextrins in chromatographic separations and purification methods. Hinze, W., Separation and purification methods, 1981, 10(2), 159-237; (2) Chromatographic Science Series, Vol. 17: Thin Layer Chromatography: Techniques and applications. Fred, B.; Sherma, J. (Marcel Decker, Inc.; New York, NY) 1982, 256. C <sub>36</sub> H <sub>60</sub> O <sub>30</sub> MW 972.9	250 mg 1 g 5 g 25 g
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190053 RT	<b>β-CYCLODEXTRIN</b> [7585-39-9] (Schardinger β-Dextrin) Crystalline Reported useful for the selective precipitation of enantiomeric, positional or structural isomers. Ref.: (1) Applications of cyclodextrins in chromatographic separations and purification methods. Hinze, W., Separation and purification methods 1981, 10(2), 159-237; (2) Chromatographic Science Series, Vol. 17: Thin Layer Chromatography: Techniques and applications. Fred, B.; Sherma, J. (Marcel Decker, Inc.: New York, NY) 1982, 256. MW 1135.0	1 g 5 g 25 g 100 g
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190054 RT	<b>γ-CYCLODEXTRIN</b> [17465-86-0] (Schardinger γ-Dextrin) Crystalline Reported to be useful as a fluorescent enhancer for chemical and clinical assays. Ref.: (1) Applications of cyclodextrins in chromatographic separations and purification methods. Hinze, W., Separation and purification methods 1981, 10(2), 159-237; (2) Chromatographic Science Series, Vol. 17: Thin Layer Chromatography: Techniques and Applications. Fred, B.; Sherma, J. (Marcel Decker, Inc.: New York, NY) 1982, 256. MW 1297.1	25 mg 100 mg 500 mg 1 g 5 g
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194646 RT	<b>L-CYSTEINE</b> [52-90-4] (β-Mercapto-L-alanine) Free Base Cell Culture Reagent Crystalline C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> S MW 121.2	25 g 100 g 500 g 1 kg
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194647 RT	<b>L-CYSTEINE</b> [52-89-1] Cell Culture Reagent Monohydrate Hydrochloride C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> S • HCl • H <sub>2</sub> O MW 175.6	25 g 100 g 500 g
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# Biochemicals for Cell Culture

194648 0°C	<b>L-CYSTEINE ETHYL ESTER</b> [868-59-7] <b>Cell Culture Reagent</b> <b>Hydrochloride</b> Purity: ~98% C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S • HCl MW 185.7	5 g	194658 RT	<b>ETHANOLAMINE</b> [141-43-5] <b>Cell Culture Reagent</b> <b>Free Base</b> Purity: ~95% 1 ml = approx. 1.02 g C <sub>2</sub> H <sub>7</sub> NO MW 61.08	100 ml 500 ml 1 liter
194649 RT	<b>L-CYSTINE</b> [56-89-3] <b>Cell Culture Reagent</b> Purity: 99% White crystals C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub> MW 240.3	25 g 100 g 500 g	194659 RT	<b>ETHYLENEDIAMINETETRAACETIC ACID</b> [60-00-4] (EDTA) <b>Cell Culture Reagent</b> <b>Free Acid</b> Purity: 99% C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>8</sub> MW 292.2	100 g 500 g
194650 RT	<b>L-CYSTINE</b> [30925-07-6] <b>Cell Culture Reagent</b> <b>Dihydrochloride</b> C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub> • 2HCl MW 313.2	25 g 100 g 500 g	194660 RT	<b>ETHYLENEDIAMINETETRAACETIC ACID</b> [67401-50-7] (Versene; EDTA-Na <sub>4</sub> ) <b>Cell Culture Reagent</b> Purity: 99% <b>Tetrasodium Salt</b> C <sub>10</sub> H <sub>12</sub> N <sub>2</sub> O <sub>8</sub> Na <sub>4</sub> MW 380.2	100 g 500 g 1 kg
194651 RT	<b>CYTIDINE</b> [65-46-3] (Cytosine-β-D-ribose) <b>Free Base</b> <b>Cell Culture Reagent</b> C <sub>9</sub> H <sub>13</sub> N <sub>3</sub> O <sub>5</sub> MW 243.2	1 g 5 g 50 g	194044 RT	<b>FERRIC AMMONIUM SULFATE, ACS</b> [7783-83-7] (Ammonium ferric sulfate; Ammonium iron[III] sulfate) <b>Dodecahydrate</b> <b>ACS Reagent Grade</b> Purity: ≥99% FeNH <sub>4</sub> (SO <sub>4</sub> ) <sub>2</sub> • 12H <sub>2</sub> O MW 482.2	25 g 100 g 500 g
150769 0°C	<b>CYTOCHALASIN A</b> [14110-64-6] From <i>Helminthosporium dematioideum</i> <b>Crystalline</b> Cytochalasins are fungal metabolites which exhibit interesting effects on cell activity. Important tools for cytological research. C <sub>29</sub> H <sub>35</sub> NO <sub>5</sub> MW 477.6	1 mg	194661 RT	<b>FERRIC CITRATE</b> [3522-50-7] (Iron[III]citrate) <b>Cell Culture Reagent</b> <b>Crystalline</b> C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> Fe MW 244.9	250 g 1 kg
195119 0°C	<b>CYTOCHALASIN B</b> [14930-96-2] From <i>Drechslera dematidea</i> <b>Crystalline</b> Interesting tool for cytological research. C <sub>29</sub> H <sub>37</sub> NO <sub>5</sub> MW 479.6	1 mg 5 mg 10 mg	194662 RT	<b>FERRIC NITRATE</b> [7782-61-8] (Iron[III] nitrate) <b>Cell Culture Reagent</b> <b>Nonahydrate</b> Fe(NO <sub>3</sub> ) <sub>3</sub> • 9H <sub>2</sub> O MW 404	100 g 500 g 1 kg
150770 0°C	<b>CYTOCHALASIN C</b> [22144-76-9] From <i>Metarrhizium anisopliae</i> <b>Crystalline</b> C <sub>30</sub> H <sub>37</sub> NO <sub>6</sub> MW 507.6	1 mg	194663 RT	<b>FEROUS SULFATE</b> [7782-63-0] <b>Cell Culture Reagent</b> <b>Heptahydrate</b> Purity: >99% FeSO <sub>4</sub> • 7H <sub>2</sub> O MW 278	250 g 500 g 1 kg
150771 0°C	<b>CYTOCHALASIN D</b> [22144-77-0] From <i>Zygosporium mansonii</i> <b>Crystalline</b> C <sub>30</sub> H <sub>37</sub> NO <sub>6</sub> MW 507.6	1 mg 5 mg	104874 0-5°C	<b>FETUIN I</b> [9014-81-7] <b>From Fetal Bovine Serum</b> A glycoprotein recovered from the globulin fraction of fresh calf serum by ammonium sulfate fractionation. Ref.: Pederson, K.O., J. Phys. and Colloid Chem., 51, 164 (1947).	100 mg 250 mg 1 g
150772 0°C	<b>CYTOCHALASIN E</b> [36011-19-5] From <i>Aspergillus clavatus</i> <b>Crystalline</b> C <sub>28</sub> H <sub>33</sub> NO <sub>7</sub> MW 495.6	1 mg 5 mg	152410 0-5°C	<b>FETUIN II</b> <b>From Neonatal Calf Serum</b> A glycoprotein recovered from the globulin fraction of calf serum by ammonium sulfate fractionation. Ref.: Pederson, K.O., J. Phys. and Colloid Chem., 51, 164 (1947)	1 g
194654 0°C	<b>2'-DEOXYADENOSINE</b> [958-09-8] <b>Cell Culture Reagent</b> White crystalline powder Purity: 98-100% C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>3</sub> MW 251.2	250 mg 1 g 5 g 25 g	160003 RT	<b>FICOLL®</b> [26873-85-8] A copolymer of sucrose and epichlorohydrin. Component used to make density gradients for lymphocyte separation, including ICN LymphoSep™ & Mono-Poly™ Resolving Medium (see Cell Biology Section). Ficoll® is a registered trademark of Pharmacia Inc. MW ~400,000	5 g 10 g 25 g 100 g
194655 0°C	<b>2'-DEOXYCYTIDINE</b> [3992-42-5] <b>Cell Culture Reagent</b> <b>Hydrochloride</b> C <sub>9</sub> H <sub>13</sub> N <sub>3</sub> O <sub>4</sub> • HCl MW 263.7	100 mg 250 mg 1 g 10 g			
194656 0°C	<b>2'-DEOXYGUANOSINE</b> [961-07-9] <b>Cell Culture Reagent</b> <b>Crystalline</b> Purity: 99-100% C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>4</sub> MW 267.2	25 mg 100 mg 250 mg 1 g			
194657 0-5°C	<b>2-DEOXY-D-RIBOSE</b> [533-67-5] (D-erythro-2-Deoxypentose) <b>Cell Culture Reagent</b> <b>Crystalline</b> C <sub>5</sub> H <sub>10</sub> O <sub>4</sub> MW 134.1	500 mg 1 g			



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194664 0°C	<b>FLAVIN ADENINE DINUCLEOTIDE</b> [146-14-5] (FAD) <b>Cell Culture Reagent</b> <b>Disodium Salt</b> <b>Purity: 95-99%</b> The prosthetic group of certain oxidases C <sub>27</sub> H <sub>31</sub> N <sub>9</sub> O <sub>15</sub> P <sub>2</sub> Na <sub>2</sub> MW 829.6	10 mg 25 mg 100 mg 250 mg 500 mg 1 g
151128 0°C	<b>FLAVIN MONONUCLEOTIDE</b> [130-40-5] <b>Monosodium Salt</b> <b>Dihydrate</b> <b>Practical Grade</b> <b>Purity: 78-80%</b> Riboflavin Content: 2-3% Our assays of some dealers product shows our material to be better than the commercial grade most others offer. C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>9</sub> PNa • 2H <sub>2</sub> O MW 514.4	5 g 10 g 25 g
194665 RT	<b>FOLIC ACID</b> [59-30-3] (Pteroylglutamic Acid) <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: 98%</b> C <sub>19</sub> H <sub>19</sub> N <sub>7</sub> O <sub>6</sub> MW 441.4	5 g 10 g 25 g 100 g
194666 RT	<b>FOLINIC ACID</b> [1492-18-8] (N <sup>5</sup> -Formyl-5,6,7,8- tetrahydropteroyl-L- glutamic acid; Citrovorum factor; Leucovorin) <b>Cell Culture Reagent</b> <b>Calcium Salt</b> Pentahydrate C <sub>20</sub> H <sub>21</sub> N <sub>7</sub> O <sub>7</sub> Ca MW 601.6	25 mg 100 mg 500 mg
194667 RT	<b>β-D-(-)-FRUCTOSE</b> [57-48-7] (β-D-(-)-levulose) <b>Cell Culture Reagent</b> <b>Purity: 99+%</b> C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> MW 180.2	100 g 500 g 1 kg 5 kg
194668 RT	<b>FUMARIC ACID</b> [110-17-8] <b>Cell Culture Reagent</b> <b>Free Acid</b> <b>Purity: 99%</b> C <sub>4</sub> H <sub>4</sub> O <sub>4</sub> MW 116.1	100 g 500 g 1 kg
194669 RT	<b>D-(+)-GALACTOSAMINE</b> [1772-03-8] (Chondrosamine hydrochloride) <b>Cell Culture Reagent</b> <b>Hydrochloride</b> <b>Purity: 99%</b> C <sub>6</sub> H <sub>13</sub> NO <sub>5</sub> • HCl MW 215.6	100 mg 500 mg 1 g 5 g
194670 RT	<b>D-(+)-GALACTOSE</b> [59-23-4] <b>Cell Culture Reagent</b> <b>Anhydrous</b> <b>Crystalline</b> <b>Purity: 98%</b> C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> MW 180.2	100 g 500 g 1 kg
103604 0°C	<b>GANGLIOSIDES</b> From Bovine Brain Highly purified May contain approx. 18-20% N-acetylneuraminic acid.	10 mg 25 mg 100 mg
101780 RT	<b>D-GLUCONO-δ-LACTONE</b> [90-80-2] (D-Gluconic acid-D-lactone) <b>Purity: 99+%</b> <b>Crystalline</b> C <sub>6</sub> H <sub>10</sub> O <sub>6</sub> MW 178.1	100 g 500 g 1 kg
194671 RT	<b>D-(+)-GLUCOSAMINE</b> [66-84-2] (2-Amino-2-deoxy-D-glucose; Chitosamine) <b>Cell Culture Reagent</b> <b>Purity: 99%</b> <b>Hydrochloride</b> C <sub>6</sub> H <sub>13</sub> NO <sub>5</sub> • HCl MW 215.6	25 g 100 g 500 g
194672 RT	<b>D-(+)-GLUCOSE</b> [50-99-7] (Dextrose; Corn sugar) <b>Cell Culture Reagent</b> <b>Anhydrous</b> <b>Crystalline</b> C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> MW 180.2	100 g 1 kg 5 kg
194673 0°C	<b>α-D-GLUCOSE-1-PHOSPHATE</b> [5996-14-5] <b>Cell Culture Reagent</b> <b>Dihydrate</b> <b>Dipotassium Salt</b> <b>Purity: 98%</b> C <sub>6</sub> H <sub>11</sub> O <sub>9</sub> PK <sub>2</sub> • 2H <sub>2</sub> O MW 372.3	25 mg 50 mg 100 mg 500 mg 1 g
194674 RT	<b>GLUCURONOLACTONE</b> [32499-92-6] (D-Glucuronic acid lactone) <b>Cell Culture Reagent</b> <b>Crystalline</b> C <sub>6</sub> H <sub>8</sub> O <sub>6</sub> MW 176.1	25 g 100 g 1 kg
194675 RT	<b>DL-GLUTAMIC ACID</b> [617-65-2] (DL-2-Aminopentanedioic acid) <b>Cell Culture Reagent</b> <b>Monohydrate</b> <b>Purity: 99+%</b> C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub> • H <sub>2</sub> O MW 165.1	10 g 25 g 100 g 1 kg
194676 RT	<b>L-GLUTAMIC ACID</b> [56-86-0] (L-2-Aminopentanedioic acid) <b>Free Acid</b> <b>Cell Culture Reagent</b> <b>Purity: 99-100%</b> <b>Crystalline</b> C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub> MW 147.1	500 g 1 kg 5 kg
194677 RT	<b>L-GLUTAMIC ACID</b> [142-47-2] (Monosodium glutamate) <b>Cell Culture Reagent</b> <b>Purity: 99+%</b> <b>Monosodium Salt</b> C <sub>5</sub> H <sub>8</sub> NO <sub>4</sub> Na MW 169.1	100 g 500 g 1 kg
194678 RT	<b>L-GLUTAMINE</b> [56-85-9] (L-2-Aminoglutaric acid) <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: 99-100%</b> C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> MW 146.1	25 g 100 g 250 g 500 g 1 kg
1680146	<b>L-GLUTAMINE</b> 200 mM solution Shipped frozen in dry ice	20 ml
1680149	<b>L-GLUTAMINE</b> Powder Storage temperature: 2-8°C	100 ml
1580113	<b>L-GLUTAMINE</b> Powder Storage temperature: 2-8°C	20 g
1580115	<b>L-GLUTAMINE</b> Powder Storage temperature: 2-8°C	50 g
194679 0-5°C	<b>GLUTATHIONE REDUCED</b> [70-18-8] (γ-L-Glutamyl-L-cysteinylglycine) <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: 98-100%</b> Useful tripeptide involved in many aspects of metabolism, including transport of γ-glutamyl amino acids and reductive cleavage of disulfide bonds. C <sub>10</sub> H <sub>17</sub> N <sub>3</sub> O <sub>6</sub> S MW 307.3	5 g 10 g 25 g 100 g

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151193 0-5°C	<b>GLUTATHIONE OXIDIZED</b> [121-24-4] <b>Anhydrous</b> ( $\gamma$ -L-Glutamyl-L-cysteinylglycine) <sub>2</sub> Acts as hydrogen acceptor in enzymic determination of NADP and NADPH. C <sub>20</sub> H <sub>32</sub> N <sub>6</sub> O <sub>12</sub> S <sub>2</sub> MW 612.6	250 mg 500 mg 1 g 5 g
194680 RT	<b>GLYCEROL</b> [56-81-5] <b>Cell Culture Reagent</b> <b>Highly purified</b> <b>Purity: 99+%</b> Ideal for use as a cryoprotectant. C <sub>3</sub> H <sub>8</sub> O <sub>3</sub> MW 92.09	100 ml 500 ml
102914 RT	<b>GLYCEROPHOSPHATE</b> <b>Disodium Salt</b> <b>Pentahydrate</b> Contains approx. 60% $\alpha$ -Glycerophosphate, sodium salt and 40% $\beta$ -Glycerophosphate, sodium salt meets NF $\times$ specifications. White, fine crystalline, hygroscopic powder. C <sub>3</sub> H <sub>7</sub> O <sub>8</sub> PNa <sub>2</sub> • 5H <sub>2</sub> O MW 306	25 g 100 g 500 g 1 kg
195206 RT	<b><math>\beta</math>-GLYCEROPHOSPHATE</b> [819-83-0] <b>Disodium Salt</b> <b>Pentahydrate</b> L- $\alpha$ -isomer impurity 0.1% maximum. Suitable for the Bodansky phosphatase procedure. C <sub>3</sub> H <sub>7</sub> O <sub>8</sub> PNa <sub>2</sub> • 5H <sub>2</sub> O MW 306.1	25 g 50 g 100 g 500 g 1 kg
194681 RT	<b>GLYCINE</b> [56-40-6] (Aminoacetic acid) <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Free Acid</b> C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub> MW 75.1	100 g 500 g 1 kg 5 kg
194548 RT	<b>GLYCYLGLYCINE</b> [556-50-3] (GLYGLY) <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Free Base</b> pKa=8.2 at 25°C Useful pH range 7.5-8.9 C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> MW 132.1	10 g 25 g 100 g 1 kg
190691 RT	<b>GUANINE</b> [73-40-5] (2-Amino-6-hydroxypurine) <b>Free Base</b> <b>Highly Purified</b> White Crystals. C <sub>5</sub> H <sub>5</sub> N <sub>5</sub> O MW 151.1	1 g 5 g 25 g 100 g
194682 RT	<b>GUANOSINE</b> [118-00-3] (9-[ $\beta$ -D-Ribofuranosyl] guanine) <b>Cell Culture Reagent</b> <b>Crystalline</b> C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>5</sub> MW 283.2	1 g 5 g 25 g
101924 0-5°C	<b>HEMIN</b> [15489-47-1] (Hemin Chloride) <b>Bovine</b> <b>Crystalline</b> <b>Purity: &gt;98%</b> C <sub>34</sub> H <sub>32</sub> ClFeN <sub>4</sub> O <sub>4</sub> MW 652	250 mg 1 g 10 g 25 g
194683 0-5°C	<b>HEPARIN</b> [9005-48-5] <b>Potassium Salt</b> <b>Cell Culture Reagent</b> Based on 100 u/mg. Actual activity supplied with each shipment. Moisture: 10%. Ash: 0.45%, Na:<1%, K: 12% Protein: Negative Nitrogen: Approx. 2.2% pH approx. 7	10 KU 25 KU 50 KU 100 KU 250 KU 500 KU 1000 KU

194115 RT	<b>HEPARIN</b> [9041-08-1] <b>From Porcine Intestinal Mucosa</b> <b>Low Molecular Weight I</b> Lyophilized and produced by base-induced $\beta$ -eliminative cleavage. Avg. Mol. Wt.: ~3000 <b>Sodium Salt</b> <b>Activity:</b> Anti-Ila <10 IU/mg.	10 mg 50 mg 100 mg 250 mg
194684 RT	<b>L-HISTIDINE</b> [71-00-1] <b>Cell Culture Reagent</b> <b>Free Base</b> <b>Purity: 99+%</b> C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> MW 155.2	100 g 500 g 1 kg
194685 RT	<b>L-HISTIDINE</b> [645-35-2] <b>Cell Culture Reagent</b> <b>Hydrochloride</b> <b>Monohydrate</b> <b>Crystalline</b> C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> • HCl • H <sub>2</sub> O MW 209.6	5 g 25 g 100 g
194686 RT	<b>4-HYDROXY-L-PROLINE</b> [51-35-4] (L-4-Hydroxy-2-pyrrolidine-carboxylic acid) <b>Cell Culture Reagent</b> <b>Trans Isomer</b> <b>Crystalline</b> C <sub>5</sub> H <sub>9</sub> NO <sub>3</sub> MW 131.1	25 g 100 g
153540 RT	<b>HYDROXYPROPYL <math>\beta</math>-CYCLODEXTRIN</b> [94035-02-6] (HBC)	1 g 5 g
194687 RT	<b>HYPOXANTHINE</b> [68-94-0] (6-Hydroxypurine) <b>Cell Culture Reagent</b> <b>Anhydrous</b> <b>Crystalline</b> <b>Purity: 99+%</b> C <sub>5</sub> H <sub>4</sub> N <sub>4</sub> O MW 136.1	1 g 5 g 25 g 100 g
194688 RT	<b>D-myo-INOSITOL</b> [87-89-8] (l-Inositol; myo-Inositol; meso-Inositol) <b>Cell Culture Reagent</b> A lipotropic agent. C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> MW 180.2	50 g 100 g 500 g 1 kg
102082 RT	<b>DL-ISOLEUCINE</b> [443-79-8] <b>Purity: 99+%</b> <b>Crystalline</b> Essentially free of leucine. C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> MW 131.2	10 g 25 g 50 g 100 g
194689 RT	<b>L-ISOLEUCINE</b> [73-32-5] <b>Cell Culture Reagent</b> <b>Purity: 99%</b> <b>Crystalline</b> C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> MW 131.2	1 g 5 g 10 g 25 g 100 g
194690 0-5°C	<b><math>\alpha</math>-KETOGLUTARIC ACID</b> [328-50-7] (2-Oxopentanedioic acid) <b>Cell Culture Reagent</b> <b>Free Acid</b> <b>Purity: 98%</b> C <sub>5</sub> H <sub>6</sub> O <sub>5</sub> MW 146.1	1 g 5 g 25 g 100 g 500 g
102131 RT	<b>LACTALBUMIN HYDROLYSATE</b> <b>ENZYMATIC</b> (Edamin) Total Nitrogen: 12.3% Amino Nitrogen: 6.9% Solubility (in H <sub>2</sub> O at 25°C): 20 gm/liter	250 g 500 g 1 kg 5 kg



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194691 0-5°C	<b>DL-LACTIC ACID</b> [312-85-6] <b>Cell Culture Reagent</b> <b>Sodium Salt</b> 60% Solution by weight C <sub>3</sub> H <sub>5</sub> O <sub>3</sub> Na MW 112.1	100 ml 500 ml
193898 0-5°C	<b>L(+)-LACTIC ACID</b> [103404-76-8] <b>Hemizinc Salt</b> <b>Purity: ≥98%</b> C <sub>3</sub> H <sub>5</sub> O <sub>3</sub> • 1/2Zn MW 121.8	10 g
152533 RT	<b>D-LACTOSE, ACS</b> [5989-81-1] <b>ACS Reagent Grade</b> <b>Monohydrate</b> C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> • H <sub>2</sub> O MW 360.3	1 kg 2 kg
194693 RT	<b>DL-LEUCINE</b> [328-39-2] <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: 99+%</b> C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> MW 131.2	25 g 100 g 500 g
194694 RT	<b>L-LEUCINE</b> [61-90-5] (L-2-Amino-4-methylpentanoic acid) <b>Cell Culture Reagent</b> <b>Crystalline</b> Substantially free of isoleucine and methionine C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> MW 131.2	25 g 100 g 250 g
194695 0°C	<b>LINOLEIC ACID</b> [60-33-3] <b>Cell Culture Reagent</b> <b>Free Acid</b> <b>Purity: 95-99%</b> C <sub>18</sub> H <sub>32</sub> O <sub>2</sub> MW 280.4	100 mg 1 g 5 g 10 g 25 g
960122 RT	<b>LINSEED OIL</b> Raw	1 lb 5 lb
194696 0°C	<b>L-LYSINE</b> [56-87-1] (L-2,6-Diaminohexanoic acid) <b>Cell Culture Reagent</b> <b>Free Base</b> <b>Crystalline</b> C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> MW 146.2	5 g 25 g 100 g
194697 RT	<b>L-LYSINE</b> [657-27-2] <b>Cell Culture Reagent</b> <b>Hydrochloride</b> <b>Crystalline</b> <b>Purity: 99+%</b> C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> • HCl MW 182.6	100 g 500 g 1 kg
194698 RT	<b>MAGNESIUM CHLORIDE</b> [7791-18-6] <b>Cell Culture Reagent</b> <b>Hexahydrate</b> <b>Crystalline</b> MgCl <sub>2</sub> • 6H <sub>2</sub> O MW 203.3	100 g 500 g 1 kg
194699 RT	<b>MAGNESIUM SULFATE</b> [7487-88-9] <b>Cell Culture Reagent</b> <b>Anhydrous</b> <b>Crystalline</b> MgSO <sub>4</sub> MW 120.4	500 g 1 kg
158950 -20-0°C	<b>MAITOTOXIN</b> [59392-53-9] <b>Purity: ≥95%</b> Activates L-type Ca <sup>2+</sup> channels and stimulates phosphoinositide turnover isolated from marine dinoflagellates. <b>Ref.:</b> 1. Choi, O.H., et al., Mol. Pharmacol., 37, 222 (1990). 2. Yokoyama, A., et al., Biochem., 104, 184 (1988). 3. Gusovsky, F. and Daly, J.W., Biochem. Pharmacol., 39, 1633 (1990). C <sub>164</sub> H <sub>256</sub> O <sub>68</sub> S <sub>2</sub> Na <sub>2</sub> MW 3422	5 µg 10 µg 25 µg

194700 RT	<b>L-MALIC ACID</b> [97-67-6] (L-Hydroxysuccinic acid) <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Free Acid</b> <b>Purity: 99%</b> C <sub>4</sub> H <sub>6</sub> O <sub>5</sub> MW 134.1	5 g 25 g 100 g 500 g
194701 RT	<b>D-(+)-MALTOSE</b> [6363-53-7] (4-O-α-D-Glucopyranosyl-D-glucose) <b>Cell Culture Reagent</b> <b>Monohydrate</b> <b>Crystalline</b> <b>Purity: 99%</b> <b>Mixed Anomers</b> C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> • H <sub>2</sub> O MW 360.3	100 g 500 g 1 kg
155334 RT	<b>MANGANESE CHLORIDE</b> [13446-34-9] <b>Crystalline</b> <b>Tetrahydrate</b> MnCl <sub>2</sub> • 4H <sub>2</sub> O MW 197.9	100 g 500 g
194702 RT	<b>MANGANESE SULFATE</b> [10034-96-5] <b>Cell Culture Reagent</b> <b>Crystalline</b> MnSO <sub>4</sub> MW 151	100 g 500 g 1 kg
194703 RT	<b>D-(+)-MANNOSE</b> [3458-28-4] (Seminose) <b>Cell Culture Reagent</b> <b>Purity: 99%</b> <b>Crystalline</b> C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> MW 180.2	25 g 100 g 500 g
102260 RT	<b>MENADIONE SODIUM BISULFITE U.S.P.</b> [130-37-0] <b>Purity: 63-75%</b> Water soluble C <sub>11</sub> H <sub>8</sub> O <sub>2</sub> • NaHSO <sub>3</sub> MW 276.2	100 g 500 g 1 kg
194705 RT	<b>2-MERCAPTOETHANOL</b> [60-24-2] (β-Mercaptoethanol; 2-Hydroxyethylmercaptan) <b>Cell Culture Reagent</b> Used to reduce disulfide linkages in solubilizing proteins for gel electrophoresis. Also reduces excess oxidative polymerization of catalysts. 1 ml = 1.12 g/ml C <sub>2</sub> H <sub>6</sub> OS MW 78.13	100 ml 250 ml 500 ml 1 liter
194706 RT	<b>DL-METHIONINE</b> [59-51-8] (DL-2-Amino-4-methylthiobutanoic acid) <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: 99+%</b> C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S MW 149.2	100 g 500 g 1 kg
194707 RT	<b>L-METHIONINE</b> [63-68-3] (L-2-Amino-4-methylthiobutanoic acid) <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: 99+%</b> C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S MW 149.2	25 g 100 g 500 g 1 kg
194708 0°C	<b>METHOTREXATE</b> [59-05-2] (Amethopterin) <b>Cell Culture Reagent</b> <b>Crystalline</b> C <sub>20</sub> H <sub>22</sub> N <sub>6</sub> O <sub>5</sub> MW 454.4	10 mg 25 mg 100 mg 500 mg

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194709 RT	<b>METHYL CELLULOSE</b> [9004-67-5] <b>Cell Culture Reagent</b> Viscosity of 2% aqueous solution at 25°C: <b>15 centipoises</b>	100 g 250 g
194710 RT	<b>MOLYBDIC ACID</b> [12027-67-7] <b>Ammonium Salt</b> <b>Cell Culture Reagent</b> (NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> • 4H <sub>2</sub> O MW 1235.9	100 g
194711 0-5°C	<b>α-MONOTHIOGLYCEROL</b> [96-27-5] (α-Thioglycerol; 3-Mercapto-1,2-propanediol) <b>Cell Culture Reagent</b> <b>Purity: 98%</b> 1 ml = approx. 1.25 g. C <sub>3</sub> H <sub>6</sub> O <sub>2</sub> S MW 108.2	25 ml 50 ml 100 ml 250 ml 500 ml
194712 RT	<b>NIACINAMIDE</b> [98-92-0] (Nicotinic acid amide; Nicotinamide; Pyridine-3-carboxylic acid amide) <b>Cell Culture Reagent</b> <b>Purity: 98-100%</b> C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O MW 122.1	100 g 500 g 1 kg
194713 RT	<b>NICKEL CHLORIDE</b> [7791-20-0] <b>Cell Culture Reagent</b> <b>Hexahydrate</b> <b>Crystalline</b> NiCl <sub>2</sub> • 6H <sub>2</sub> O MW 237.7	100 g 500 g 1 kg
194714 0°C	<b>β-NICOTINAMIDE ADENINE DINUCLEOTIDE</b> [53-84-9] (β-NAD) <b>Cell Culture Reagent</b> <b>Oxidized Form</b> <b>Free Acid</b> <b>Lyophilized</b> <b>Purity: 98%</b> A high purity preparation enzymatically assayed using ADH and LDH. Available in bulk quantities. C <sub>21</sub> H <sub>27</sub> N <sub>7</sub> O <sub>14</sub> P <sub>2</sub> MW 663.4	100 mg 250 mg 500 mg 1 g 5 g 10 g
194715 0°C	<b>β-NICOTINAMIDE ADENINE DINUCLEOTIDE PHOSPHATE</b> [1184-16-3] (β-NADP; TPN; Triphosphopyridine nucleotide) <b>Sodium Salt</b> <b>Cell Culture Reagent</b> <b>Purity: 98-100%</b> C <sub>21</sub> H <sub>27</sub> N <sub>7</sub> O <sub>17</sub> P <sub>3</sub> Na MW 765.4	25 mg 50 mg 100 mg 250 mg 500 mg 1 g
194716 RT	<b>NICOTINIC ACID</b> [59-67-6] (Pyridine-3-carboxylic acid) <b>Cell Culture Reagent</b> <b>Purity: 99+%</b> <b>Crystalline</b> <b>Free Acid</b> C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub> MW 123.1	100 g 500 g 1 kg
194717 0°C	<b>OLEIC ACID</b> [112-80-1] (9-Octadecenoic acid) <b>Cell Culture Reagent</b> <b>Purity: 99+%</b> 1 ml = approx. 0.89 g C <sub>18</sub> H <sub>34</sub> O <sub>2</sub> MW 282.5	1 g 5 g 25 g
194718 RT	<b>L-ORNITHINE</b> [3184-13-2] (L-2,5-Diaminopentanoic acid) <b>Cell Culture Reagent</b> <b>Hydrochloride</b> <b>Crystalline</b> <b>Purity: ~99%</b> This material is essentially free of citrulline and ammonia. C <sub>5</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> • HCl MW 168.6	5 g 25 g 100 g 500 g 1 kg

194719 0°C	<b>OXALACETIC ACID</b> [328-42-7] (Oxobutanedioic acid) <b>Cell Culture Reagent</b> <b>Purity: 98-99%</b> C <sub>4</sub> H <sub>4</sub> O <sub>5</sub> MW 132.1	5 g 25 g 100 g
194721 0°C	<b>D-PANTOTHENIC ACID</b> [137-08-6] (D-Calcium pantothenate) <b>Cell Culture Reagent</b> <b>Calcium Salt</b> <b>Crystalline</b> C <sub>9</sub> H <sub>16</sub> NO <sub>5</sub> • 1/2Ca MW 238.3	100 g 500 g
104808 RT	<b>PEPTONE</b> Bacteriological Grade Suitable for bacteriological growth media	1 lb 5 lb 10 lb
104806 RT	<b>PEPTONE I</b> Especially processed to be high in Tryptophan. Excellent in cultivation for indole production and cultivation of diptheroids	1 lb 5 lb
104807 RT	<b>PEPTONE S</b> Useful for incorporation into media used in hydrogen sulfide tests.	1 lb 5 lb
104569 RT	<b>PEPTONE T</b> A tryptic digest of tissue	1 lb 5 lb 25 lb
194597 RT	<b>PHENOL RED</b> [34487-61-1] <b>Sodium Salt</b> <b>Cell Culture Reagent</b> (Phenolsulfonphthalein) Water soluble pH indicator: 6.8 (yellow)-8.2 (red) C <sub>19</sub> H <sub>13</sub> O <sub>5</sub> SNa MW 376.4	1 g 5 g 10 g 25 g
194722 RT	<b>D,L-PHENYLALANINE</b> [150-30-1] <b>Cell Culture Reagent</b> <b>Purity: 99%</b> C <sub>9</sub> H <sub>11</sub> NO <sub>2</sub> MW 165.2	5 g 25 g 100 g 1 kg
194723 RT	<b>L-PHENYLALANINE</b> [63-91-2] (L-2-Amino-3-phenylpropanoic acid) <b>Cell Culture Reagent</b> <b>Purity: &gt;99%</b> C <sub>9</sub> H <sub>11</sub> NO <sub>2</sub> MW 165.2	25 g 100 g 250 g 500 g 1 kg
194878 RT	<b>PHOSPHORIC ACID, ACS</b> [7664-38-2] Aqueous solution <b>ACS Reagent Grade</b> <b>Purity: ≥85%</b> H <sub>3</sub> PO <sub>4</sub> MW 98.0	100 g 500 g
152557 RT	<b>POTASSIUM BICARBONATE, ACS</b> [298-14-6] <b>ACS Reagent Grade</b> <b>Purity: 99.7-100.5%</b> KHCO <sub>3</sub> MW 100.12	100 g 1 kg 5 kg
194726 RT	<b>POTASSIUM CHLORIDE</b> [7447-40-7] <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: 99%</b> KCl MW 74.55	250 g 500 g 1 kg 5 kg



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191513 RT	<b>POTASSIUM IODIDE</b> [7681-11-0] Crystalline KI MW 166.00	100 g 500 g 1 kg	194732 0°C	<b>PYRIDOXAMINE</b> [524-36-7] Cell Culture Reagent Dihydrochloride Purity: 99% Crystalline C <sub>8</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> • 2HCl MW 241.1	250 mg 1 g 5 g
191428 RT	<b>POTASSIUM NITRATE, ACS</b> [7757-79-1] ACS Reagent Grade Insoluble Matter: ≤0.005% Crystalline KNO <sub>3</sub> MW 101.1	100 g 500 g 1 kg 5 kg	194733 RT	<b>PYRIDOXINE</b> [58-56-0] (Vitamin B <sub>6</sub> ) Cell Culture Reagent Hydrochloride Purity: 98% C <sub>8</sub> H <sub>11</sub> NO <sub>3</sub> • HCl MW 205.6	10 g 25 g 50 g 100 g
194727 RT	<b>POTASSIUM PHOSPHATE MONOBASIC</b> [7778-77-0] Cell Culture Reagent Anhydrous Crystalline Purity: 99+% KH <sub>2</sub> PO <sub>4</sub> MW 136.09	100 g 500 g 1 kg	194734 0-5°C	<b>PYRUVIC ACID</b> [113-24-6] (Sodium α-ketopropionate; Sodium 2-oxopropanoate) Cell Culture Reagent Sodium Salt Purity: 99+% C <sub>3</sub> H <sub>3</sub> O <sub>3</sub> Na MW 110	25 g 100 g 500 g
195455 RT	<b>PRISTANE</b> [1921-70-6] (2,6,10,14-Tetramethylpentadecane) 1 ml = approx. 0.785 gm Useful as a biological marker. C <sub>19</sub> H <sub>40</sub> MW 268.5	100 ml 250 ml	102797 RT	<b>D-(+)-RAFFINOSE</b> [17629-30-0] (Mellitose) Crystalline Pentahydrate C <sub>18</sub> H <sub>32</sub> O <sub>16</sub> • 5H <sub>2</sub> O MW 594.5	25 g 100 g 500 g
194728 RT	<b>L-PROLINE</b> [147-85-3] Cell Culture Reagent Crystalline Purity: 99+% Hydroxy-L-proline free C <sub>5</sub> H <sub>9</sub> NO <sub>2</sub> MW 115.1	25 g 100 g 1 kg	194735 0-5°C	<b>RIBOFLAVIN</b> [83-88-5] (Vitamin B <sub>2</sub> ) Cell Culture Reagent Crystalline Purity: 98% C <sub>17</sub> H <sub>20</sub> N <sub>4</sub> O <sub>6</sub> MW 376.4	25 g 100 g
151955 RT	<b>PROPIONIC ACID</b> [79-09-4] (Propanoic Acid) Free Acid Purity: ≥99% 1 ml = approx. 0.99 g C <sub>3</sub> H <sub>6</sub> O <sub>2</sub> MW 74.1	100 ml 500 ml 1 liter	194736 0-5°C	<b>D-(-)-RIBOSE</b> [50-69-1] Cell Culture Reagent Purity: 99% Crystalline C <sub>5</sub> H <sub>10</sub> O <sub>5</sub> MW 150.1	5 g 25 g 100 g
102924 RT	<b>PROPIONIC ACID</b> [137-40-6] Fungicide, mold preventative Sodium Salt Crystalline Purity: ~99% C <sub>3</sub> H <sub>5</sub> O <sub>2</sub> Na MW 96.1	100 g 500 g 1 kg	102868 RT	<b>DL-SERINE</b> [302-84-1] (DL-2-Amino-3-hydroxypropionic acid) Crystalline C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub> MW 105.1	25 g 100 g 1 kg
194729 RT	<b>PROTAMINE SULFATE</b> [9009-65-8] Cell Culture Reagent From Salmon Sperm Highly purified Nitrogen: Approx. 22.5% Hygroscopic white powder.	1 g 5 g 10 g 25 g 100 g	194737 RT	<b>L-SERINE</b> [56-45-1] (L-2-Amino-3-hydroxypropionic acid) Cell Culture Reagent Purity: 99+% Crystalline C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub> MW 105.1	25 g 100 g
100450 RT	<b>PUTRESCINE</b> [333-93-7] (Diaminobutane dihydrochloride) Dihydrochloride Crystalline Purity: ~98% C <sub>4</sub> H <sub>12</sub> N <sub>2</sub> • 2HCl MW 161.1	1 g 5 g 25 g 100 g	195496 RT	<b>SODIUM ACETATE, ACS</b> [127-09-3] Anhydrous ACS Reagent Grade Crystalline Purity: 99% NaC <sub>2</sub> H <sub>3</sub> O <sub>2</sub> MW 82.03	500 g 1 kg 2 kg
194730 0°C	<b>PYRIDOXAL</b> [65-22-5] Cell Culture Reagent Hydrochloride C <sub>8</sub> H <sub>9</sub> NO <sub>3</sub> • HCl MW 203.6	500 mg 1 g 5 g 25 g	194553	<b>SODIUM BICARBONATE</b> [144-55-8] Cell Culture Reagent Crystalline Purity: 99.5% NaHCO <sub>3</sub> MW 84.01	500 g 1 kg 5 kg
194731 0°C	<b>PYRIDOXAL-5-PHOSPHATE</b> [54-47-7] Cell Culture Reagent Monohydrate Purity: ~98% C <sub>8</sub> H <sub>10</sub> NO <sub>6</sub> P • H <sub>2</sub> O MW 265.1	100 mg 500 mg 1 g 5 g	194738 RT	<b>SODIUM CHLORIDE</b> [7647-14-5] Cell Culture Reagent Purity: 99.5% min. NaCl MW 58.44	500 g 1 kg 5 kg 10 kg

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194864 RT	<b>SODIUM FLUORIDE, ACS</b> [7681-49-4] <b>ACS Reagent Grade</b> Purity: ≥99% NaF MW 41.99	100 g 500 g
194739 RT	<b>SODIUM PHOSPHATE DIBASIC</b> [7558-79-4] (Disodium hydrogen phosphate) <b>Cell Culture Reagent</b> <b>Anhydrous</b> Na <sub>2</sub> HPO <sub>4</sub> MW 141.96	100 g 500 g 1 kg 5 kg
194740 RT	<b>SODIUM PHOSPHATE MONOBASIC</b> [7558-80-7] (Monosodium phosphate) <b>Cell Culture Reagent</b> <b>Anhydrous</b> NaH <sub>2</sub> PO <sub>4</sub> MW 120	100 g 500 g 1 kg
194741 RT	<b>SODIUM SELENITE</b> [10102-18-8] <b>Cell Culture Reagent</b> Purity: ~98% Na <sub>2</sub> SeO <sub>3</sub> MW 172.9	10 g 25 g 100 g 500 g
102937 RT	<b>SORBIC ACID</b> [110-44-1] (2,4-Hexanedienoic acid) Purity: 99+% <b>Crystalline</b> <b>Free Acid</b> C <sub>6</sub> H <sub>6</sub> O <sub>2</sub> MW 112.1	100 g 250 g 500 g
194742 RT	<b>D-SORBITOL</b> [50-70-4] (D-Glucitol) <b>Cell Culture Reagent</b> <b>Anhydrous</b> <b>Crystalline</b> Purity: 98-99% C <sub>6</sub> H <sub>14</sub> O <sub>6</sub> MW 182.2	100 g 500 g 1 kg 5 kg
152070 0°C	<b>SPERMINE</b> [71-44-3] <b>Free Base</b> Purity: 97+% This is a purified form of our Spermine. This is the highest purity spermine we've seen, and most others claim lower quality or make no claims about purity. C <sub>10</sub> H <sub>26</sub> N <sub>4</sub> MW 202.3	250 mg 500 mg 1 g 5 g
194744 RT	<b>STANNOUS CHLORIDE</b> [10025-69-1] <b>Cell Culture Reagent</b> <b>Dihydrate</b> SnCl <sub>2</sub> • 2H <sub>2</sub> O MW 225.6	100 g 500 g
194747 RT	<b>SUCROSE</b> [57-50-1] <b>Cell Culture Reagent</b> <b>Crystalline</b> C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> MW 342.3	500 g 1 kg 5 kg
190117	<b>SUPEROXIDE DISMUTASE</b> [9054-89-1] <b>From Bovine Erythrocytes</b> (Superoxide: Superoxide oxidoreductase) E.C. 1.15.1.1 Lyophilized salt-free powder <b>Activity:</b> 3,500 U/mg <b>Unit Definition:</b> That amount of enzyme causing a 50% inhibition in the rate of assay based on the method of McCord, J.M. and Fridovich, (1969), J. Biol. Chem., 1, 6049.	3 KU 15 KU 30 KU 75 KU
194748 RT	<b>TAURINE</b> [107-35-7] (2-Aminoethanesulfonic acid) <b>Cell Culture Reagent</b> <b>Crystalline</b> Purity: 99% Amino acid found in most animal tissues, but lacking in plants. C <sub>2</sub> H <sub>7</sub> NO <sub>3</sub> S MW 125.1	10 g 25 g 100 g 1 kg

194749 RT	<b>THIAMINE</b> [67-03-8] (Vitamin B <sub>1</sub> ) <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Hydrochloride</b> Used in fluorometric determination of mercury C <sub>12</sub> H <sub>17</sub> N <sub>4</sub> O <sub>2</sub> SCl • HCl MW 337.3	25 g 100 g 250 g
194751 RT	<b>DL-THIOCTIC ACID</b> [1077-28-7] (α-Lipoic acid) <b>Cell Culture Reagent</b> Purity: 98-99% C <sub>8</sub> H <sub>14</sub> O <sub>2</sub> S <sub>2</sub> MW 206.3	1 g 5 g 25 g
156867 0°C	<b>DL-6,8-THIOCTIC ACID AMIDE</b> [3206-73-3] (DL-Lipoamide) <b>Oxidized Form</b> Purity: ≥99% <b>Crystalline</b> C <sub>8</sub> H <sub>15</sub> NOS <sub>2</sub> MW 205.3	1 g 5 g
194752 RT	<b>DL-THREONINE</b> [6028-28-0] (DL-2-Amino-3-hydroxybutyric acid) <b>Cell Culture Reagent</b> Purity: 99% <b>Crystalline</b> C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub> MW 119.1	10 g 25 g 100 g
194753 RT	<b>L-THREONINE</b> [72-19-5] <b>Cell Culture Reagent</b> Purity: 99% <b>Crystalline</b> C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub> MW 119.1	1 g 5 g 10 g 25 g 100 g
194754 RT	<b>THYMIDINE</b> [50-89-5] (1-[2-Deoxy-β-D-ribofuranosyl]-5-methyluracil) <b>Cell Culture Reagent</b> <b>Crystalline</b> Purity: 99-100% C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> O <sub>5</sub> MW 242.2	1 g 5 g 10 g 25 g
103060 0°C	<b>THYMINE</b> [65-71-4] (5-Methyluracil) <b>Crystalline</b> Purity: ~99% C <sub>5</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub> MW 126.1	10 g 25 g 100 g
152147 0°C	<b>D-α-TOCOPHEROL</b> [59-02-9] (Vitamin E) Mixed isomers from vegetable oil Yellow to reddish oil C <sub>29</sub> H <sub>50</sub> O <sub>2</sub> MW 430.7	10 g 25 g 100 g
190692 0-5°C	<b>D-α-TOCOPHEROL ACETATE</b> [58-95-7] (Vitamin E acetate) Crystallized from natural α-tocopherol Since the melting point is approx. 20°C, this product is usually an oil. C <sub>31</sub> H <sub>52</sub> O <sub>3</sub> MW 472.8	10 g 25 g 100 g
194756 RT	<b>D-(+)-TREHALOSE</b> [6138-23-4] (Mycose, 1-O-α-D-glucopyranosyl-α-D-glucopyranoside) <b>Cell Culture Reagent</b> <b>Dihydrate</b> Purity: 99+% <b>Crystalline</b> C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> • 2H <sub>2</sub> O MW 378.3	5 g 10 g 25 g 100 g
194757 RT	<b>DL-TRYPTOPHAN</b> [54-12-6] (DL-2-Amino-3-indolepropionic acid) <b>Cell Culture Reagent</b> Purity: 99% <b>Crystalline</b> C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> MW 204.2	5 g 25 g 100 g



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194758 RT	<b>L-TRYPTOPHAN</b> [73-22-3] (L-2-Amino-3-indolepropionic acid) <b>Cell Culture Reagent</b> <b>Purity: 99+%</b> <b>Crystalline</b> C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> MW 204.2	1 g 5 g 25 g 100 g 500 g
1682149	<b>TRYPTOSE PHOSPHATE BROTH</b> (Liquid) <b>Concentration: 29.5 mg/ml</b> Storage temperature: 15-30°C	100 ml
193436	<b>TRYPTOSE PHOSPHATE BROTH</b> Powdered form of ICN Cat. No. 1682149.	100 g 500 g 1 kg
194724 RT	<b>TWEEN 20</b> [9005-64-5] (Polyoxyethylenesorbitan monolaurate) <b>Cell Culture Reagent</b> Syrup <b>Purity: Approx. 55% lauric acid</b>	100 ml 500 ml 4 liter
194725 RT	<b>TWEEN 80</b> [9005-65-6] (Polyoxyethylenesorbitan monooleate) <b>Cell Culture Reagent</b> Syrup <b>Purity: ~75% oleic acid</b>	100 ml 500 ml 4 liter
194759 RT	<b>L-TYROSINE</b> [60-18-4] (β-p-Hydroxyphenylalanine) <b>Cell Culture Reagent</b> <b>Free Base</b> <b>Crystalline</b> C <sub>9</sub> H <sub>11</sub> NO <sub>3</sub> MW 181.2	50 g 100 g 500 g
194760 0°C	<b>L-TYROSINE</b> [16870-43-2] <b>Cell Culture Reagent</b> <b>Hydrochloride</b> <b>Crystalline</b> C <sub>9</sub> H <sub>11</sub> NO <sub>3</sub> • HCl MW 217.7	250 mg 1 g 5 g 10 g 25 g
105573 RT	<b>L-TYROSINE</b> [69847-45-6] <b>Sodium Salt</b> <b>Crystalline</b> C <sub>9</sub> H <sub>9</sub> NO <sub>3</sub> Na <sub>2</sub> MW 225.2	25 g 100 g 500 g
194761 RT	<b>URACIL</b> [66-22-8] (2,4-Dihydropyrimidine) <b>Cell Culture Reagent</b> <b>Crystalline</b> This material is high purity, with white crystals. C <sub>4</sub> H <sub>4</sub> N <sub>2</sub> O <sub>2</sub> MW 112.1	5 g 25 g 100 g 500 g 1 kg
194762 RT	<b>UREA</b> [57-13-6] (Carbamide) <b>Cell Culture Reagent</b> <b>Crystalline</b> CH <sub>4</sub> N <sub>2</sub> O MW 60.06	100 g 500 g 1 kg 5 kg
194763 RT	<b>URIDINE</b> [58-96-8] (1-β-D-Ribofuranosyluracil) <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: ~99%</b> C <sub>9</sub> H <sub>12</sub> N <sub>2</sub> O <sub>6</sub> MW 244.2	1 g 5 g 50 g
194766 0°C	<b>URIDINE-5'TRIPHOSPHATE</b> [19817-92-6] <b>Trisodium Salt</b> <b>Cell Culture Reagent</b> <b>Dihydrate</b> White amorphous powder <b>Purity: 97-99%</b> C <sub>9</sub> H <sub>12</sub> N <sub>2</sub> O <sub>15</sub> P <sub>3</sub> Na <sub>3</sub> MW 550.1	10 mg 25 mg 100 mg 500 mg 1 g
194768 RT	<b>DL-VALINE</b> [516-06-3] (DL-2-Amino-3-methylbutanoic acid) <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: 99%</b> C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> MW 117.1	25 g 100 g 500 g 1 kg
194769 RT	<b>L-VALINE</b> [72-18-4] (L-2-Amino-3-methylbutanoic acid) <b>Cell Culture Reagent</b> <b>Crystalline</b> <b>Purity: 99%</b> C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> MW 117.1	5 g 25 g 100 g 500 g
103257 0-5°C	<b>VITAMIN A ACETATE</b> [127-47-9] (Retinyl acetate; Retinol acetate) Dry: 500,000 IU/gm C <sub>22</sub> H <sub>32</sub> O <sub>2</sub> MW 328.5	10 g 25 g 100 g
903288 0-5°C	<b>WHEAT GERM</b> Natural source-vitamin B complex	5 lb 25 lb 100 lb
103291 RT	<b>XANTHINE</b> [1196-43-6] <b>Sodium Salt</b> <b>Crystalline</b> <b>Purity: 98-100%</b> C <sub>5</sub> H <sub>3</sub> N <sub>4</sub> O <sub>2</sub> Na MW 174.1	5 g 10 g 25 g
3000049 -20-0°C	<b>YEAST EXTRACT</b> 25% (w/v) solution	100 ml
103303 0-5°C	<b>YEAST EXTRACT POWDER</b> A vacuum dried extract concentrate of Baker's yeast containing the B-complex factors of approximately three times its weight of ordinary dry yeast.	100 g 500 g 1 kg
193899 RT	<b>ZINC CHLORIDE</b> [7646-85-7] <b>Purity: ≥97%</b> ZnCl <sub>2</sub> MW 136.3	100 g 500 g 1 kg
193453 RT	<b>ZINC SULFATE</b> [7446-20-0] <b>Heptahydrate</b> <b>Purity: ≥98%</b> ZnSO <sub>4</sub> • 7H <sub>2</sub> O MW 287.5	100 g 500 g 1 kg

Biochemicals for Cell Culture