



## Bioprocessing Products from Pilot to Production



# 100% Tested. 100% Transparent. 100% Trusted.

Meet global regulatory requirements, ensure bioprocessing success and speed time to market with Spectrum Chemical's bioCERTIFIED™ quality management system and chemicals.

Whether it's upstream bioprocessing or downstream, bioCERTIFIED products are tailored to each customer's unique requirements. And they are backed by Spectrum Chemical's "100% Tested and 100% Transparent" guarantee.

All raw materials and finished goods are subject to in-house testing in our cGMP-compliant facilities to ensure that chemicals and ingredients meet stringent quality standards. Plus, our bioCERTIFIED products undergo additional testing for bioburden, endotoxin and elemental impurities with extensive certifications and documentation.

Spectrum Chemical's extensive knowledge and experience in the changing global environment ensure that our products — and YOURS — are compliant with regulatory and compliance requirements. Additionally, documented change controls and sourcing ensure full supply chain transparency.

In short, you gain an industry-leading support team and strict quality and certification processes to reduce your workload so you can accelerate biopharmaceutical production.



## Quality Management System & Chemicals



## Spectrum Chemical bioCERTIFIED Products

Chemical Type	Chemical Name	CAS	Catalog No.	Grade	Sizes
Biological Buffer	bioCERTIFIED TRIS	77-86-1	T9700	USP, EP, JP	1, 2.5, 12, 25 KG
Carbohydrate / Sugar	Sucrose (Beet Derived) Low Endotoxin	57-50-1	S9160	USP/NF, EP, JP, ChP	1, 2.5, 12, 25, 50 KG
Carbohydrate / Sugar	Dextrose (Glucose) Anhydrous	50-99-7	D9300	USP, EP, BP, JP	1, 2.5, 12, 50KG
Chelating Agent / pH Adjuster	Trolamine 99, (Triethanolamine)	102-71-6	T9760	NF	1, 4, 20, 200L
Cleaning In Place	bioCERTIFIED 20% Ethanol	64-17-5	E9210	cGMP	1, 5, 55 Gallons
Cleaning In Place	bioCERTIFIED Benzyl Alcohol	100-51-6	B8200	NF, EP, BP, JP, cGMP	1, 4, 25 L
Cleaning In Place	Ethanol (EtOH) 20% w/ WFI, Downstream Bioprocess Solution	64-17-5	E9200		1, 5, 55 GAL
	bioCERTIFIED Glycerin	56-81-5	G9300	USP, EP, BP, JP, FCC	4, 20, 200 L
Cleaning In Place	bioCERTIFIED Hydrochloric Acid Solution 0.1N	7647-01-0	H9801	cGMP	4, 20, 200 L
Cleaning In Place	bioCERTIFIED Hydrochloric Acid Solution 0.5N	7647-01-0	H9802	cGMP	4, 20, 200 L
Cleaning In Place	bioCERTIFIED Hydrochloric Acid Solution 6.0N	7647-01-0	H9803	cGMP	4, 20, 200 L
Cleaning In Place	bioCERTIFIED Sodium Hydroxide Solution 0.1N	1310-73-2	S9291	cGMP	500 ML, 5, 25, 200 LT
Cleaning In Place	bioCERTIFIED Sodium Hydroxide Solution 1.0N	1310-73-2	S9290	cGMP	500 ML, 5, 25, 200 LT
Cleaning In Place	bioCERTIFIED Sodium Hydroxide Solution: 0.5N	1310-73-2	S9292	cGMP	500 ML, 5, 25, 200 LT
Inorganic Salt	Ammonium Sulfate	7783-20-2	A9400	USP, ACS	200 G, 12 KG, 50 KG
Inorganic Salt	Calcium Acetate	62-54-4	C9001	USP, EP	1, 5 KG
Inorganic Salt	Magnesium Chloride Hexahydrate	7791-18-6	M9100	USP, EP, BP, JP, FCC	200 G, 12 KG, 50 KG
Inorganic Salt	Magnesium Sulfate Heptahydrate	10034-99-8	M9701	USP, EP	1, 5, 12, 25 KG
Inorganic Salt	Potassium Acetate	127-08-2	P9813	EP	1, 2.5, 12, 50 KG
Inorganic Salt	Potassium Chloride	7447-40-7	P9811	USP, EP	200 G, 12 KG
Inorganic Salt	Sodium Acetate Trihydrate	6131-90-4	S9000	USP, EP, JP, FCC	200 G, 12 KG
Inorganic Salt	Sodium Carbonate Anhydrous	497-19-8	S9150	USP, FCC	200 G, 12 KG
Inorganic Salt	Sodium Chloride	7647-14-5	S9200	USP, EP, BP, JP, FCC	200 G, 12 KG, 50 KG
Inorganic Salt	Sodium Chloride	7647-14-5	S9210	USP, EP	12, 25 KG
Inorganic Salt	Sodium Phosphate Dibasic Anhydrous	7558-79-4	S9300	USP, EP	1, 2.5, 10, 25, 50 KG
Inorganic Salt	Sodium Phosphate Dibasic Dihydrate	10028-24-7	S9350	USP, BP	1, 2.5, 10, 50 KG
Inorganic Salt	Sodium Phosphate Monobasic Anhydrous	7558-80-7	S9377	USP	1, 2.5, 10, 25, 50 KG
Inorganic Salt	Sodium Phosphate Monobasic Dihydrate	13472-35-0	S9375	USP, EP	1, 2.5, 10, 50 KG
Inorganic Salt	Sodium Phosphate Monobasic Monohydrate	10049-21-5	S9376	USP, BP	200 G, 12 KG
Inorganic Salt	Sodium Phosphate Monobasic Monohydrate	10049-21-5	S9404	USP, BP FCC	1, 5 KG
Preservative	Benzyl Alcohol, Parenteral	100-51-6	B8210	NF	1, 4, 25, 200L
Organic Salt	Calcium Acetate	62-54-4	C9001	USP, EP	1, 5, 12, 25, 50 KG
Organic Salt	Potassium Acetate	127-08-2	P9813	EP, BP, JPE	1, 2.5, 12, 50KG

# Bringing Minerals to Life

Hand-selected by Spectrum Chemical for biopharma and parenteral drug products, Macco Organiques' line of inorganic salts perfectly complements our bioCERTIFIED portfolio and other media for bioprocessing.

Macco offers physically modified mineral salts and customized packaging including blending, grinding/crushing, milling and repackaging.

## Certifications and Registrations

- GMP ICH Q7
- FSSC 22000
- ISO 9001
- FDA-inspected
- CoS/CEP
- US Drug Master File
- Japanese Drug Master File
- ASMF

All products are packed in a GMP Q7-certified facility equipped with clean rooms that conform to ISO 8 standards.

With a passion for quality as their hallmark, Macco's stringent processes help prevent contamination throughout all production stages to ensure high-purity performance for bioprocessing.

## Quality Standards

- EP (European Pharmacopeia)
- BP (British Pharmacopeia)
- USP (U.S. Pharmacopeia)
- JP (Japanese Pharmacopeia)
- FCC (Food Chemical Codex)
- ACS (American Chemical Society)
- ChP (Chinese Pharmacopeia)



## Macco Organiques Products

Chemical Type	Chemical Name	CAS	Catalog No.	Grade	Sizes
Inorganic Salt	Ammonium Sulfate	7783-20-2	5070400	USP, ACS, Pyrogen Free	200 G, 12 KG, 50 KG
Inorganic Salt	Calcium Chloride Dihydrate	10035-04-8	5200302	USP, EP, BP, JP, FCC, ACS, Pyrogen Free	200 G, 12 KG
Inorganic Salt	Magnesium Chloride Hexahydrate	7791-18-6	5120306	USP, EP, BP, JP, FCC, ACS, Pyrogen Free	200 G, 12 KG, 500 KG
Inorganic Salt	Magnesium Sulfate Heptahydrate	10034-99-8	5120407	USP, EP, BP, FCC, Pyrogen Free	200 G, 12 KG
Inorganic Salt	Potassium Chloride	7447-40-7	5190300	USP, EP, BP, FCC	200 G, 12 KG
Inorganic Salt	Potassium Hydrogen Carbonate	298-14-6	5111431	EP, FCC	200 G, 12 KG
Inorganic Salt	Sodium Acetate Trihydrate	6131-90-4	5110103	EP, USP, JP, FCC, Pyrogen Free	200 G, 12 KG
Inorganic Salt	Sodium Bicarbonate	144-55-8	5110600	EP, USP, Pyrogen Free	200 G, 12 KG
Inorganic Salt	Sodium Carbonate Anhydrous	497-19-8	5110200	USP, FCC	200 G, 12 KG
Inorganic Salt	Sodium Chloride	7647-14-5	5110300	EP, USP, BP, JP, FCC, Pyrogen Free	200 G, 12 KG, 50 KG
Inorganic Salt	Sodium Phosphate Dibasic Heptahydrate	7782-85-6	5111507	EP, USP	200 G, 12 KG
Inorganic Salt	Sodium Phosphate Monobasic Monohydrate	10049-21-5	5111501	USP, FCC, Pyrogen Free	200 G, 12 KG
Inorganic Salt	Sodium Sulfate Anhydrous	7757-82-6	5110400	EP, USP	200 G, 12 KG
Inorganic Salt	Zinc Sulfate Monohydrate	7446-19-7	5300401	USP, EP, FCC	200 G, 12 KG

## Upstream Bioprocessing Products

## Non-GMP

Chemical Type	Chemical Name	CAS	Catalog No.	Grade
Acid	Citric Acid, Anhydrous	77-92-9		
Acid	Citric Acid, Monohydrate	5949-29-1	C1285	Reagent, ACS
Additive	Adenine Sulphate	2922-28-3	AI034	No Grade
Amino Acid	Glycine	56-40-6	GLI58	ACS
Amino Acid	L-Alanine	56-41-7	ALI15	No Grade
Amino Acid	L-Arginine	74-79-3	ARI20	No Grade
Amino Acid	L-Arginine HCl	1119-34-2	ARI25	No Grade
Amino Acid	L-Asparagine (Monohydrate)	5794-13-8	ASI15	No Grade
Amino Acid	L-Aspartic Acid	56-84-8	ASI25	No Grade
Amino Acid	L-Cystine 2HCl	30925-07-6	C3038	No Grade
Amino Acid	L-Cystine HCl H <sub>2</sub> O	5934-29-2	HI125	No Grade
Amino Acid	L-Glutamic Acid	56086-0	GLI25	No Grade
Amino Acid	L-Glutathione Oxidized	27025-41-8	G3359	No Grade
Amino Acid	L-Glutathione Reduced	70-18-8	GLI46	No Grade
Amino Acid	L-Histidine	71-00-1	HI120	No Grade
Amino Acid	L-Histidine HCl H <sub>2</sub> O	HI125	HI125	No Grade
Amino Acid	L-Isoleucine	73-32-5	ISI10	No Grade
Amino Acid	L-Leucine	61-90-5	LEI15	No Grade
Amino Acid	L-Lysine HCl	657-27-2	LY106	No Grade
Amino Acid	L-Methionine	63-68-3	ME130	No Grade
Amino Acid	L-Phenylalanine	63-91-2	PHI45	No Grade
Amino Acid	L-Proline	147-85-3	PR120	No Grade
Amino Acid	L-Serine	56-45-1	SEI25	No Grade
Amino Acid	L-Threonine	72-19-5	THI50	No Grade
Amino Acid	L-Tryptophan	73-22-3	42000020	No Grade
Amino Acid	L-Tyrosine	60-18-4	TY105	No Grade
Amino Acid	L-Valine	72-18-4	VAI20	No Grade
Antibiotic	Amphotericin B	1397-89-3	40110020	No Grade
Antibiotic	Ampicillin (Sodium Salt)	69-52-3	AM206	No Grade
Antibiotic	Chloramphenicol	530-48-8	40310016	No Grade
Antibiotic	Gentamicin Sulfate	1405-41-0	40710020	No Grade
Antibiotic	Hygromycin B	31282-04-9	H3399	No Grade
Antibiotic	Kanamycin	25389-94-0	41110000	No Grade

# GMP

Catalog No.	Grade	MEM	DMEM	IMDM	RPMI 1640	F10	F12	McCoy's 5A	199
C1131	USP								
C1296	USP								
									✓
AM125	USP		✓	✓	✓	✓	✓	✓	✓
A1252	FCC			✓		✓	✓	✓	✓
AR120	FCC								
A1337	USP	✓	✓	✓	✓	✓	✓	✓	✓
A1373	FCC			✓	✓	✓	✓	✓	
A1376	FCC			✓	✓	✓	✓	✓	✓
		✓	✓	✓	✓				✓
						✓	✓	✓	✓
G1036	FCC		✓	✓	✓	✓	✓	✓	✓
HI021	USP								
HI022	FCC	✓	✓	✓	✓	✓	✓	✓	✓
I1054	FCC	✓	✓	✓	✓	✓	✓	✓	✓
L1203	FCC	✓	✓	✓	✓	✓	✓	✓	✓
L1273	USP	✓	✓	✓	✓	✓	✓	✓	✓
M1141	FCC	✓	✓	✓	✓	✓	✓	✓	✓
		✓	✓	✓	✓	✓	✓	✓	✓
P1436	FCC			✓	✓	✓	✓	✓	✓
SI021	FCC								
TI057	FCC								
		✓	✓	✓	✓	✓	✓	✓	✓
		✓	✓	✓	✓	✓	✓	✓	✓
VI008	FCC								
A1819	USP								

## Glossary for Abbreviations

**MEM:** Minimal Essential Medium

**DMEM:** Dulbecco's Modified Essential Medium

**IMDM:** Iscove's Modified Dulbecco's Medium

**RPMI:** Roswell Park Memorial Institute

## Non-GMP

Chemical Type	Chemical Name	CAS	Catalog No.	Grade	
Antibiotic	Penicillin G, gamma irradiated	69-57-8	4I610000	No Grade	
Antibiotic	Puromycin (Dihydrochloride)	58-58-2	TCI-P2311	No Grade	
Antibiotic	Streptomycin (Sulfate)	3810-74-0	4I910008	No Grade	
Antibiotic	Tetracycline (Doxycycline Hyclate)	24390-14-5			
Antioxidant	Glutathione (reduced)	70-18-8	GL146	No Grade	
Antioxidant	Lipoic Acid	1077-28-7	LI515	No Grade	
Base	Uracil	66-22-8	URI05	Reagent	
Biological Buffers	HEPES	7365-45-9	HI089	Ultrapure	
Biological Buffers	HEPES Sodium Salt	75277-39-3	HI084	High Purity	
Biological Buffers	MES Monohydrate	145224-94-8			
Biological Buffers	PIPES Disodium Salt	76836-02-7	P3352	No Grade	
Biological Buffers	PIPES Sesquisodium Salt	100037-69-2	PI150	High Purity	
Biological Buffers	TRIS Base	77-86-1	SI519	Reagent, ACS	
Carbohydrates/Sugars	2-Deoxy-D-Ribose	533-67-5	D1056	No Grade	
Carbohydrates/Sugars	Dextrose	50-99-7	DE140	No Grade	
Carbohydrates/Sugars	Dextrose Monohydrate	77938-63-7	D1018	Reagent	
Carbohydrates/Sugars	Dextrose, Anhydrous	50-99-7	D1017	Reagent ACS	
Carbohydrates/Sugars	D-Galactose	59-23-4	GA110	Reagent	
Carbohydrates/Sugars	D-Glucose	492-61-5	G2153	No Grade	
Carbohydrates/Sugars	D-Ribose	50-69-1	RI105	Reagent	
Carbohydrates/Sugars	D-Trehalose Dihydrate	6138-23-4	T1097	No Grade	
Carbohydrates/Sugars	Lactose Monohydrate	64044-51-5	LI037	Biotech Grade	
Carbohydrates/Sugars	L-Arabinose	5328-37-0	ARI10	No Grade	
Carbohydrates/Sugars	Mannitol	69-65-8	MI128	Biotech Grade	
Carbohydrates/Sugars	Sorbitol	50-70-4			
Carbohydrates/Sugars	Sucrose	57-50-1	SI695	Reagent, ACS	
Chelating Agent	Edetate Disodium, Dihydrate (Sodium EDTA)	6381-92-6	EI058	Biotech Grade	
Denaturant	Guanine HCl	635-39-2	GI121	No Grade	
Enzyme	Collagenase	9001-12-1	CI526	No Grade	



# GMP

Catalog No.	Grade	MEM	DMEM	IMDM	RPMI 1640	F10	F12	McCoy's 5A	199
ST135	USP								
D2993	USP								
					✓			✓	✓
LI506	USP					✓	✓		
									✓
H1804	cGMP								
M2848	cGMP								
T9700	USP, EP								
									✓
DE145	USP								
DE140	USP, EP, BP, JP								
GI500	cGMP								
									✓
T1724	cGMP								
LA106	NF								
MAI65	USP								
SO219	NF								
SUI03	No Grade								
EDI50	USP								
									✓

## Non-GMP

Chemical Type	Chemical Name	CAS	Catalog No.	Grade	
Enzyme	Trypsin	9002-07-7			
Fatty Acid	Linoleic Acid	60-33-3	L1106	High Purity	
Inorganic Salt	Ammonium Sulfate	7783-20-2	A1245	Reagent, ACS	
Inorganic Salt	Calcium Chloride Anhydrous	10043-52-4	C1978	No Grade	
Inorganic Salt	Calcium Chloride, Dihydrate	10035-04-8	C1096	Reagent, ACS	
Inorganic Salt	Calcium Nitrate (Tetrahydrate)	13477-34-4	C1135	Reagent, ACS	
Inorganic Salt	Copper Sulfate (Pentahydrate)	7758-99-8	C1425	Reagent, ACS	
Inorganic Salt	Iron Nitrate (Nonahydrate), Crystal	7782-61-8	F1030	Reagent, ACS	
Inorganic Salt	Iron Sulfate, Dried Powder	13463-43-9			
Inorganic Salt	Magnesium Chloride Hexahydrate	7791-18-6	M1035	Reagent, ACS	
Inorganic Salt	Magnesium Chloride, Anhydrous	7786-30-3	M1018	No Grade	
Inorganic Salt	Magnesium Chloride, Hexahydrate, Crystal	7791-18-6	M1035	Reagent, ACS	
Inorganic Salt	Magnesium Sulfate (Heptahydrate)	10034-99-8	M1354	Reagent, ACS	
Inorganic Salt	Magnesium Sulfate Heptahydrate	10034-98-8	M1065	Reagent, ACS	
Inorganic Salt	Potassium Chloride	7447-40-7			
Inorganic Salt	Potassium Dihydrogen Phosphate	7778-77-0	P1380	Reagent, ACS	
Inorganic Salt	Potassium Iodide	7681-11-0	P1340	Reagent, ACS	
Inorganic Salt	Potassium Nitrate	7757-79-1			
Inorganic Salt	Potassium Oxalate, Monohydrate	6487-48-5	P1355	Reagent, ACS	
Inorganic Salt	Potassium Phosphate Dibasic, Anhydrous	7758-11-4	P1383	Reagent, ACS	
Inorganic Salt	Potassium Phosphate Dibasic, Trihydrate	16788-57-1	P1385	Reagent	
Inorganic Salt	Potassium Phosphate Monobasic	7778-77-0	P1380	Reagent, ACS	
Inorganic Salt	Sodium Acetate (Anhydrous)	127-09-3	S1111	Technical	
Inorganic Salt	Sodium Acetate Trihydrate	6131-90-4	S1115	Reagent, ACS	
Inorganic Salt	Sodium Bicarbonate	144-55-8	S1145	ACS	
Inorganic Salt	Sodium Carbonate, Anhydrous	497-19-8	S1220	Reagent, ACS	
Inorganic Salt	Sodium Carbonate, Monohydrate	5968-11-6	S1230	Reagent, ACS	
Inorganic Salt	Sodium Chloride	7647-14-5	S1240	Reagent, ACS	
Inorganic Salt	Sodium Dihydrogen Phosphate Dihydrate	13472-35-0	S2010	No Grade	
Inorganic Salt	Sodium Phosphate Dibasic Anhydrous	7558-79-4	S1400	N	
Inorganic Salt	Sodium Phosphate Dibasic Dihydrate	10028-24-7			
Inorganic Salt	Sodium Phosphate Dibasic Dodecahydrate	10039-32-4	S1770	No Grade	
Inorganic Salt	Sodium Phosphate Dibasic Heptahydrate	7782-85-6	S1405	Reagent, ACS	
Inorganic Salt	Sodium Phosphate Monobasic (Monohydrate)	10049-21-5	S1396	Biotech Grade	

# GMP

Catalog No.	Grade	MEM	DMEM	IMDM	RPMI 1640	F10	F12	McCoy's 5A	199
C1872	USP								
							√		
AM185	FCC								
CA138	FCC								
C1136	Purified				√				
CU109	USP				√	√	√		
			√						
F1065	USP					√	√		
MA111	FCC								
MA110	USP, EP, BP						√		
M1366	FCC	√	√	√	√	√		√	√
M1366	FCC								
PO170	USP								
PI382	FCC								
PI344	FCC								
P1843	USP			√					
PO205	FCC								
PI382	FCC					√			
SO104	USP								√
S015	USP								
S1148	FCC								
SO147	NF								
S1212	FCC								
SO155	USP								
S1930	USP								
S1402	FCC								
S1108	FCC								
S2056	USP								
SO140	USP								
S1397	FCC	√	√	√				√	√

## Non-GMP

Chemical Type	Chemical Name	CAS	Catalog No.	Grade	
Inorganic Salt	Sodium Phosphate Monobasic Dihydrate	13472-35-0	S2010	No Grade	
Inorganic Salt	Sodium Phosphate Tribasic, Anhydrous	7601-54-9	SI409	Technical	
Inorganic Salt	Sodium Pyruvate	113-24-6	SP193	Reagent	
Inorganic Salt	Sodium Selenite	10102-18-8	SO206	No Grade	
Inorganic Salt	Zinc Sulfate, Heptahydrate	7446-20-0	Z1095	Reagent, ACS	
Lipid	Cholesterol	57-88-5			
Organic Salt	Adenosine 5'-monophosphate monohydrate	18422-05-4	A3800	No Grade	
Organic Salt	Adenosine-5-Triphosphate (Disodium Salt)	987-65-5	AD125	No Grade	
Organic Salt	Calcium Pantothenate	137-08-6			
Organic Salt	Cytidine 5'-Monophosphate Disodium Salt, Hydrate	6757-06-8	TCIC0524	No Grade	
Organic Salt	Guanidine 5'-Monophosphate Disodium Salt	5550-12-9	G3120	No Grade	
Organic Salt	Magnesium Acetate, Tetrahydrate	16684-78-5	MI020	Reagent, ACS	
Organic Salt	Potassium Acetate	127-08-2	PI170	Reagent, ACS	
Organic Salt	Pyroxidine Hydrochloride	58-56-0	P3203	No Grade	
Organic Salt	Sodium Acetate Trihydrate	6131-90-4			
Organic Salt	Sodium Citrate Anhydrous	68-04-2			
Organic Salt	Sodium Citrate Dihydrate	6132-04-3	SI250	Reagent, ACS	
Organic Salt	Thiamine Hydrochloride	67-03-8			
Organic Salt	Uridine 5'-Monophosphate Disodium Salt	3387-36-8	UI156	No Grade	
Organic Salt	Xanthine Sodium (Monohydrate)	1196-43-6	XAI13	No Grade	
Nucleic Acid Base	Thymine	65-71-4	TCI-T0234	No Grade	
pH Adjusters	Ammonia Solution Strong	1336-21-6			
pH Adjusters	Ammonium Hydroxide	1336-21-6	AI195	ACS	
pH Adjusters	Glacial Acetic Acid	64-19-7	AI720	No Grade	
pH Adjusters	Hydrochloric Acid 37%	7647-01-0	HI041	Cleanroom Grade	
pH Adjusters	Hydrochloric Acid Reagent	7647-01-0	HI035	Reagent ACS	
pH Adjusters	Phosphoric Acid	7664-38-2			
pH Adjusters	Potassium Hydroxide, Pellets	1310-58-3	PI315	Reagent ACS	
pH Adjusters	Sodium Hydroxide, Pellets	1310-73-2			
pH Adjusters	Strong Ammonia Solution	1336-21-6			
pH Adjusters	Sulfuric Acid	7664-93-9	SI730	Reagent, ACS	

# GMP

Catalog No.	Grade	MEM	DMEM	IMDM	RPMI 1640	F10	F12	McCoy's 5A	199
SI930	USP								
SI276	FCC								
				✓		✓	✓		
				✓					
Z1120	USP								
CHI35	NF								✓
									✓
CA159	USP								
PO155	USP								
PI459	FCC								
SO105	USP								
SI986	USP								
SI256	FCC								
GHI16	USP								
									✓
									✓
AM180	NF								
AC110	USP								
HY104	NF								
PH175	NF								
PO180	NF								
SO170	NF								
AM180	NF								
SI731	NF								

## Non-GMP

Chemical Type	Chemical Name	CAS	Catalog No.	Grade	
pH Indicator	Phenol Red	34487-61-1	PHI32	ACS	
Protein Expression Agent	IPTG	367-93-1	I1055	High Purity	
Serum & Supplements	Cholesterol	57-88-5			
Serum & Supplements	Cortisone Acetate	50-04-4			
Serum & Supplements	Creatine	57-00-1	CI522	No Grade	
Serum & Supplements	Phenol Red	143-74-8	PHI32	Reagent, ACS	
Serum & Supplements	Progesterone	57-83-0			
Serum & Supplements	Testosterone	58-22-0			
Serum & Supplements	Urea	57-13-6	UI024	Biotech Grade	
Surfactant	Putrescine 2HCl	333-93-7	41600176	No Grade	
Surfactant	Tween 80 (Polysorbate 80)	9005-65-6			
Vitamin	Ascorbic Acid	50-81-7			
Vitamin	α-Tocopherol Phosphate (Disodium Salt)	60934-46-5	T3858	No Grade	
Vitamin	Biotin	58-85-5			
Vitamin	Calciferol (aka Ergocalciferol)	50-14-6	E1492	No Grade	
Vitamin	Calcium Pantothenate	137-08-6			
Vitamin	Choline Chloride	67-48-1	CHI45	Reagent	
Vitamin	Folic Acid	59-30-3			
Vitamin	Inositol	87-89-8	INI40	Reagent	
Vitamin	Niacin	59-67-6			
Vitamin	Niacinamide	98-92-0	NII01	No Grade	
Vitamin	Para-aminobenzoic Acid (PABA)	150-13-0			
Vitamin	Pyridoxal HCl	65-22-5	PY100	No Grade	
Vitamin	Pyridoxine HCl	58-56-0	PI459	FCC	
Vitamin	Riboflavin	83-88-5	R1032	FCC	
Vitamin	Thiamine HCl (Vitamin B12)	67-03-8			
Vitamin	Vitamin A Acetate, Synthetic	127-47-9	VIII9	No Grade	
Vitamin	Vitamin B12 (Cyanocobalamin)	68-19-9	CI454	FCC	
Vitamin	Vitamin B12 (Thiamine HCl)	67-03-8			

# GMP

Catalog No.	Grade	MEM	DMEM	IMDM	RPMI 1640	F10	F12	McCoy's 5A	199
		✓	✓	✓	✓	✓	✓	✓	✓
CHI35	NF								
C1438	USP								
P1834	USP								
T1635	USP								
UI018	FCC								
							✓		
PO138	NF								✓
AS102	USP							✓	✓
									✓
B1103	USP			✓	✓	✓	✓	✓	✓
ER100	USP								✓
CA159	USP	✓	✓	✓	✓	✓	✓	✓	✓
CHI47	FCC	✓	✓	✓	✓	✓	✓	✓	✓
FO105	USP	✓	✓	✓	✓	✓	✓	✓	✓
I1004	FCC	✓	✓	✓	✓	✓	✓	✓	✓
N1100	USP							✓	✓
NI082	FCC	✓	✓	✓	✓	✓	✓	✓	✓
AM150	USP				✓			✓	✓
		✓		✓				✓	✓
PY103	USP		✓		✓	✓	✓	✓	✓
R1103	USP	✓	✓	✓	✓	✓	✓	✓	✓
TH116	USP	✓	✓	✓	✓	✓	✓	✓	✓
									✓
CY901	USP								
TH116	USP			✓	✓	✓	✓	✓	

# Your Biopharma Supplier from Pilot to Production

For more than 50 years, thousands of quality-driven organizations have trusted Spectrum Chemical for fine chemicals, laboratory equipment and supplies.

- Extensive product breadth and packaging flexibility
- Complete lot analysis including tests for endotoxin, bioburden and elemental impurities
- Comprehensive regulatory and scientific documentation
- Change control, batch traceability and supply chain transparency
- Auditing and quality management controls

## Spectrum Chemical Mfg. Corp.

sales@spectrumchemical.com  
USA/Canada: 800.772.8786  
Latin America/Europe: 310.516.8000  
Asia Pacific: 86.21.67601398

### New Jersey

Corporate HQ, Manufacturing, Distribution & QC Labs  
769 Jersey Avenue  
New Brunswick, NJ 08901-3605  
ISO 9001:2015 | cGMP | FDA Registered

### California

Manufacturing, Distribution & QC Labs  
14422 S. San Pedro Street  
Gardena, CA 90248-2027  
ISO 9001:2015 | cGMP | FDA Registered

### China

Manufacturing, Distribution & QC Labs  
3802 Shen Gang Road, Bldg A20  
Song Jiang District  
Shanghai, China 201611  
ISO 9001:2015

**spectrum**<sup>®</sup>  
CHEMICAL MFG CORP



Shop now at

[SpectrumChemical.com/bioprocessing](https://SpectrumChemical.com/bioprocessing)

