



RAW MATERIALS FOR CELL CULTURE MEDIA PRODUCTION

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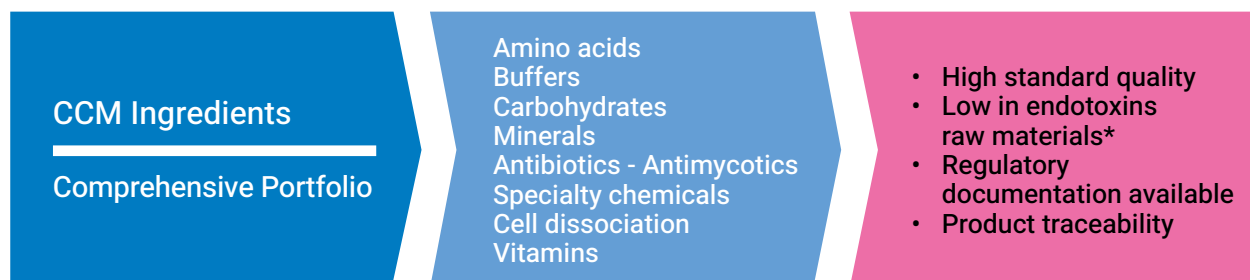
**PanReac
AppliChem**
ITW Reagents

Biopharma process yield is extremely important in particular for biomolecules to be used, for example, in vaccines production.

During the upstream, feeding the cells with the most suitable media is the key to drive with success the entire process.

A well-balanced cell medium is based on high quality raw materials able to support the cells growth.

ITW Reagents supports the cell culture media development production with a comprehensive portfolio of high-quality raw materials and specialty chemicals, also available for industrial scale manufacturing process.



Product code	Product name	CAS number	Ingredient group
141013	L(+)-Ascorbic Acid (USP, BP, Ph. Eur.) pharma grade, BioChemica	50-81-7	Acids
143006	Hydrochloric Acid 10 % w/w (USP-NF, Ph. Eur.) pure, pharma grade	7647-01-0	Acids
A4065	DL-a-Lipoic Acid BioChemica	1077-28-7	Acids
A1688	L-Alanine (Ph. Eur., USP) pure, pharma grade	56-41-7	Amino acids & vitamins
A3198	L-Alanyl-L-Glutamine for cell culture	39537-23-0	Amino acids & vitamins
A1345	L-Arginine base (Ph. Eur., USP) pure, pharma grade	74-79-3	Amino acids & vitamins
A1700	L-Arginine Hydrochloride (Ph. Eur., USP) pure, pharma grade	1119-34-2	Amino acids & vitamins
Z44653	L-Arginine mono-Hydrochloride (USP, BP, Ph. Eur., JP) low endotoxin pure, pharma grade	1119-34-2	Amino acids & vitamins
147755	L-Asparagine anhydrous (USP-NF) pure, pharma grade	70-47-3	Amino acids & vitamins
A1668	L-Asparagine 1-hydrate (Ph.Eur.) pure, pharma grade	5794-13-8	Amino acids & vitamins
A1701	L-Aspartic Acid (Ph. Eur., USP) pure, pharma grade	56-84-8	Amino acids & vitamins
143977	D(+)-Biotin (USP) pure, pharma grade	58-85-5	Amino acids & vitamins
A1425	L-Cysteine (DAB) pure, pharma grade	52-90-4	Amino acids & vitamins
A1702	L-Cysteine Hydrochloride 1-hydrate (Ph. Eur., USP) pure, pharma grade	7048-04-6	Amino acids & vitamins
A1703	L-Cystine (Ph. Eur.) pure, pharma grade	56-89-3	Amino acids & vitamins
Z43645	L-Cystine (Ph. Eur.) low endotoxin pure, pharma grade	56-89-3	Amino acids & vitamins
A0622	L-Cystine Dihydrochloride pure	30925-07-6	Amino acids & vitamins
637765	L-Cystine Dihydrochloride low endotoxin, pharma grade	30925-07-6	Amino acids & vitamins

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Product code	Product name	CAS number	Ingredient group
Z4B216	Folic acid crystalline (Ph. Eur., USP) low endotoxine, pharma grade	59-30-3	Amino acids & vitamins
A7092	Folic acid crystalline (Ph. Eur., USP) pure, pharma grade	59-30-3	Amino acids & vitamins
A1704	L-Glutamic Acid (Ph. Eur., USP) pure, pharma grade	56-86-0	Amino acids & vitamins
A1420	L-Glutamine (DAB, USP) pure, pharma grade	56-85-9	Amino acids & vitamins
141340	Glycine (USP, BP, Ph. Eur.) pure, pharma grade	56-40-6	Amino acids & vitamins
A1341	L-Histidine (Ph. Eur., USP) pure, pharma grade	71-00-1	Amino acids & vitamins
A1591	L-Histidine Hydrochloride 1-hydrate (Ph. Eur.) pure, pharma grade	5934-29-2	Amino acids & vitamins
A1705	L-Hydroxyproline pure	51-35-4	Amino acids & vitamins
A1716	myo-Inositol BioChemica	87-89-8	Amino acids & vitamins
A1440	L-Isoleucine (Ph. Eur., USP) pure, pharma grade	73-32-5	Amino acids & vitamins
A1426	L-Leucine (Ph. Eur., USP) pure, pharma grade	61-90-5	Amino acids & vitamins
A1342	L-Lysine 1-hydrate (DAB) pure, pharma grade	39665-12-8	Amino acids & vitamins
A1706	L-Lysine Monohydrochloride (Ph. Eur., USP) pure, pharma grade	657-27-2	Amino acids & vitamins
A1340	L-Methionine (Ph. Eur., USP) pure, pharma grade	63-68-3	Amino acids & vitamins
A0959	Nicotinamide (Ph. Eur., USP) pure, pharma grade	98-92-0	Amino acids & vitamins
A0963	Nicotinic Acid (Ph. Eur., USP) pure, pharma grade	59-67-6	Amino acids & vitamins
A1343	L-Ornithine Hydrochloride (DAB) pure, pharma grade	3184-13-2	Amino acids & vitamins
A1344	L-Phenylalanine (Ph. Eur., USP) pure, pharma grade	63-91-2	Amino acids & vitamins
A1707	L-Proline (Ph. Eur., USP) pure, pharma grade	147-85-3	Amino acids & vitamins
A0960	Pyridoxal Hydrochloride BioChemica	65-22-5	Amino acids & vitamins
A8093	Pyridoxine Hydrochloride (Ph. Eur., USP) pure, pharma grade	58-56-0	Amino acids & vitamins
A6279	Riboflavin (Ph. Eur., USP) pure, pharma grade	83-88-5	Amino acids & vitamins
A1708	L-Serine (Ph. Eur., USP) pure, pharma grade	56-45-1	Amino acids & vitamins
Z41683	Sodium L-Glutamate 1-hydrate (USP-NF) low endotoxin pure, pharma grade	6106-04-3	Amino acids & vitamins
141683	Sodium L-Glutamate 1-hydrate (USP-NF) pure, pharma grade	6106-04-3	Amino acids & vitamins
A8094	Thiamine Hydrochloride (Ph. Eur.) pure, pharma grade	67-03-8	Amino acids & vitamins
A0955	Thiamine Hydrochloride BioChemica	67-03-8	Amino acids & vitamins
A1419	L-Threonine (Ph. Eur., USP) pure, pharma grade	72-19-5	Amino acids & vitamins
A1645	L-Tryptophan (Ph. Eur., USP) pure, pharma grade	73-22-3	Amino acids & vitamins
A1677	L-Tyrosine (Ph. Eur., USP) pure, pharma grade	60-18-4	Amino acids & vitamins
A1637	L-Valine (Ph. Eur., USP) pure, pharma grade	72-18-4	Amino acids & vitamins
A8454	Vitamin B12 (Ph. Eur.) pure, pharma grade	68-19-9	Amino acids & vitamins

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Product code	Product name	CAS number	Ingredient group
A6352	Ampicillin Sodium Salt (Ph. Eur.) pure, pharma grade	69-52-3	Antibiotics & Antimycotics
A4789	Kanamycin Sulfate (Ph. Eur., BP) pure, pharma grade	5965-95-7	Antibiotics & Antimycotics
A4718	Mupirocin (USP) pure, pharma grade	12650-69-0	Antibiotics & Antimycotics
A1069	HEPES for buffer solutions	7365-45-9	Buffers
A3268	HEPES for cell culture	7365-45-9	Buffers
A4517	MOPS Hemisodium Salt for buffer solutions	117961-20-3	Buffers
A1025	Bis-Tris for buffer solutions	6976-37-0	Buffers
Z41940	Tris (USP, BP, Ph. Eur.) low endotoxin pure, pharma grade	77-86-1	Buffers
141940	Tris (USP, BP, Ph. Eur.) pure, pharma grade	77-86-1	Buffers
A1087	Tris Hydrochloride for buffer solutions	1185-53-1	Buffers
633654	Tris Hydrochloride low endotoxin, pharma grade	1185-53-1	Buffers
633654	Tris Hydrochloride low endotoxin, pharma grade	1185-53-1	Buffers
142173	D(+)-Galactose (Ph. Eur.) pure, pharma grade	59-23-4	Carbohydrates
Z42173	D(+)-Galactose low endotoxin (Ph. Eur.) pure, pharma grade	59-23-4	Carbohydrates
A1349	D(+)-Glucosa 1-hidrato BioChemica	77938-63-7	Carbohydrates
141341	D(+)-Glucose anhydrous (USP, BP, Ph. Eur.) pharma grade, BioChemica	50-99-7	Carbohydrates
631621	D(+)-Sucrose (USP-NF, BP, Ph. Eur.) low endotoxin, IPEC grade	57-50-1	Carbohydrates
141621	D(+)-Sucrose (USP-NF, BP, Ph. Eur., JP) pure, pharma grade	57-50-1	Carbohydrates
142050	Tween® 80 (USP-NF, BP, Ph. Eur.) pharma grade, BioChemica	9005-65-6	Detergents
A2151	2'-Deoxycytidine Hydrochloride BioChemica	3992-42-5	Nucleosides, nucleotides & nucleic acids
A2152	2'-Deoxyguanosine 1-hydrate BioChemica	961-07-9	Nucleosides, nucleotides & nucleic acids
A2265	2'-Deoxythymidine BioChemica	50-89-5	Nucleosides, nucleotides & nucleic acids
Z46543	Guanosine low endotoxin, pure grade	118-00-3	Nucleosides, nucleotides & nucleic acids
A0700	Hypoxanthine BioChemica	68-94-0	Nucleosides, nucleotides & nucleic acids
A7729	Hypoxanthine Sodium Salt BioChemica	45738-97-4	Nucleosides, nucleotides & nucleic acids
A1394	NADP Sodium Salt	1184-16-3	Nucleosides, nucleotides & nucleic acids
A0666	Uridine BioChemica	58-96-8	Nucleosides, nucleotides & nucleic acids
191232	Calcium Chloride 2-hydrate powder (USP, BP, Ph. Eur.) pharma grade	10035-04-8	Salts
A0785	Choline Chloride BioChemica	67-48-1	Salts
141270	Copper(II) Sulfate 5-hydrate (BP, Ph. Eur.) pure, pharma grade	7758-99-8	Salts

Product code	Product name	CAS number	Ingredient group
141669	EDTA Disodium Salt 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	6381-92-6	Salts
A2253	β-Glycerol Phosphate Disodium Salt 5-hydrate BioChemica	819-83-0	Salts
141362	Iron(II) Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	7782-63-0	Salts
A0982	L(+)-Lactic Acid Lithium Salt crystalline BioChemica	27848-80-2	Salts
A2088	D-Pantothenic Acid Calcium Salt BioChemica	137-08-6	Salts
191494	Potassium Chloride (USP, BP, Ph. Eur.) pharma grade	7447-40-7	Salts
141512	di-Potassium Hydrogen Phosphate anhydrous (BP, Ph. Eur.) pure, pharma grade	7758-11-4	Salts
631659	Sodium Chloride (Ph. Eur, BP, USP, JP) low endotoxin, IPEC grade	7647-14-5	Salts
631638	Sodium Hydrogen Carbonate (Ph. Eur, BP, USP) IPEC grade	144-55-8	Salts
141965	Sodium di-Hydrogen Phosphate 1-hydrate (USP, BP) pure, pharma grade	10049-21-5	Salts
141677	Sodium di-Hydrogen Phosphate 2-hydrate (USP, BP, Ph. Eur.) for analysis, pharma grade	13472-35-0	Salts
141679	di-Sodium Hydrogen Phosphate anhydrous (USP, BP, Ph. Eur.) pure, pharma grade	7558-79-4	Salts
142507	di-Sodium Hydrogen Phosphate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	10028-24-7	Salts
Z41678	di-Sodium Hydrogen Phosphate 12-hydrate (USP, BP, Ph. Eur.) low endotoxin pure, pharma grade	10039-32-4	Salts
A4859	Sodium Pyruvate for cell culture	113-24-6	Salts
631086	Ethanol absolute (Ph. Eur, BP, USP, JP) low endotoxin, IPEC grade	64-17-5	Solvents
631085	Ethanol 96 % v/v (Ph.Eur, BP, USP) IPEC grade	64-17-5	Solvents
A2217	Putrescine dihydrochloride	333-93-7	Specialties
A0672	Spermine BioChemica	71-44-3	Specialties
A7080	Spermine Tetrahydrochloride BioChemica	306-67-2	Specialties
191754	Urea crystalline (USP, BP, Ph. Eur.) pharma grade	57-13-6	Specialties

This is a product selection for Cell Culture Media production. If you have any other needs or requests, please contact us at biopharma@itwreagents.com and we will be glad to support you.

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