



# RAW MATERIALS FOR CELL CULTURE MEDIA PRODUCTION

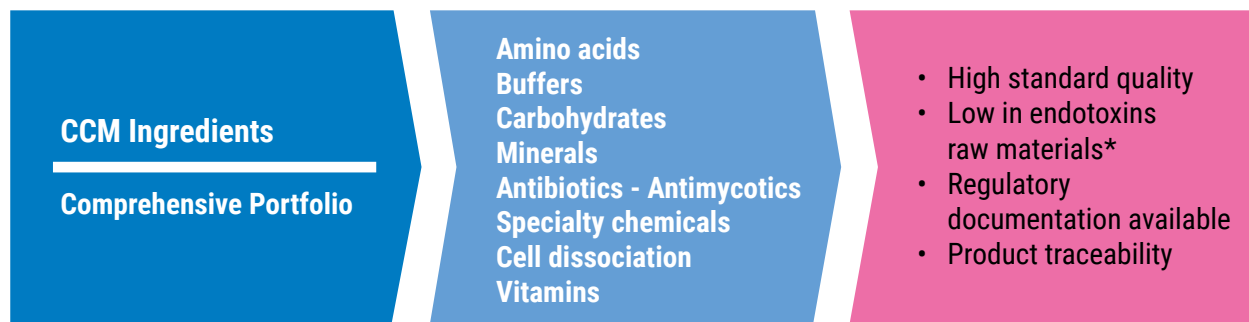
**TW**

**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
A3198	L-Alanyl-L-Glutamine for cell culture	39537-23-0	Amino acids
A1345	L-Arginine base (Ph. Eur., USP) pure, pharma grade	74-79-3	Amino acids
A1668	L-Asparagine 1-hydrate (Ph.Eur.) pure, pharma grade	5794-13-8	Amino acids
A1701	L-Aspartic Acid (Ph. Eur., USP) pure, pharma grade	56-84-8	Amino acids
A1703	L-Cystine (Ph. Eur.) pure, pharma grade	56-89-3	Amino acids
A1704	L-Glutamic Acid (Ph. Eur., USP) pure, pharma grade	56-86-0	Amino acids
141340	Glycine (USP, BP, Ph. Eur.) pure, pharma grade	56-40-6	Amino acids
A1591	L-Histidine Hydrochloride 1-hydrate (Ph. Eur.) pure, pharma grade	5934-29-2	Amino acids
A1440	L-Isoleucine (Ph. Eur., USP) pure, pharma grade	73-32-5	Amino acids
A1342	L-Lysine 1-hydrate (DAB) pure, pharma grade	39665-12-8	Amino acids
A1344	L-Phenylalanine (Ph. Eur., USP) pure, pharma grade	63-91-2	Amino acids
A1707	L-Proline (Ph. Eur., USP) pure, pharma grade	147-85-3	Amino acids
A1708	L-Serine (Ph. Eur., USP) pure, pharma grade	56-45-1	Amino acids
A1645	L-Tryptophan (Ph. Eur., USP) pure, pharma grade	73-22-3	Amino acids
A1025	Bis-Tris for buffer solutions	6976-37-0	Buffers
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
Z41940	Tris (Hydroxymethyl) Aminomethane (USP, BP, Ph. Eur.) low in endotoxins 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
Z42173	D(+)-Galactose low endotoxin (Ph. Eur.) pure, pharma grade*	59-23-4	Carbohydrates
142173	D(+)-Galactose (Ph. Eur.) pure, pharma grade	59-23-4	Carbohydrates
141341	D(+)-Glucose anhydrous (USP, BP, Ph. Eur.) pure, pharma grade	50-99-7	Carbohydrates
A1349	D(+)-Glucose 1-hydrate BioChemica	77938-63-7	Carbohydrates
631621	D(+)-Sucrose (USP-NF, BP, Ph. Eur.) low in endotoxins, GMP - IPEC grade*	57-50-1	Carbohydrates
141621	D(+)-Sucrose (USP-NF, BP, Ph. Eur., JP) pure, pharma grade	57-50-1	Carbohydrates
191232	Calcium Chloride 2-hydrate powder (USP, BP, Ph. Eur.) pharma grade	10035-04-8	Minerals
141270	Copper(II) Sulfate 5-hydrate (BP, Ph. Eur.) pure, pharma grade	7758-99-8	Minerals
141362	Iron(II) Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	7782-63-0	Minerals
191494	Potassium Chloride (USP, BP, Ph. Eur.) pharma grade	7447-40-7	Minerals
141512	di-Potassium Hydrogen Phosphate anhydrous (BP, Ph. Eur.) pure, pharma grade	7758-11-4	Minerals
631659	Sodium Chloride (Ph. Eur, BP, USP) low in endotoxins, GMP - IPEC grade*	7647-14-5	Minerals
631638	Sodium Hydrogen Carbonate (Ph. Eur, BP, USP) GMP - IPEC grade	144-55-8	Minerals

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Product code	Product name	CAS number	Ingredient group
141679	di-Sodium Hydrogen Phosphate anhydrous (USP, BP, Ph. Eur.) pure, pharma grade	7558-79-4	Minerals
142507	di-Sodium Hydrogen Phosphate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	10028-24-7	Minerals
Z41678	di-Sodium Hydrogen Phosphate 12-hydrate (USP, BP, Ph. Eur.) low in endotoxins pure, pharma grade*	10039-32-4	Minerals
141965	Sodium di-Hydrogen Phosphate 1-hydrate (USP, BP) pure, pharma grade	10049-21-5	Minerals
141677	Sodium di-Hydrogen Phosphate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	13472-35-0	Minerals
142756	Sodium Selenite anhydrous pure	10102-18-8	Minerals
A6352	Ampicillin Sodium Salt (Ph. Eur.) pure, pharma grade	69-52-3	Antibiotics - Antimycotics
A1492	Gentamycin Sulfate BioChemica	1405-41-0	Antibiotics - Antimycotics
A4789	Kanamycin Sulfate (Ph. Eur., BP) pure, pharma grade	5965-95-7	Antibiotics - Antimycotics
A1837	Penicillin G Potassium Salt BioChemica	113-98-4	Antibiotics - Antimycotics
A2150	2'-Deoxyadenosine 1-hydrate BioChemica	16373-93-6	Specialty chemicals
A2151	2'-Deoxycytidine Hydrochloride BioChemica	3992-42-5	Specialty chemicals
A2152	2'-Deoxyguanosine 1-hydrate BioChemica	961-07-9	Specialty chemicals
A2265	2'-Deoxythymidine BioChemica	50-89-5	Specialty chemicals
A2163	Flavin Adenine Dinucleotide Disodium Salt 2-hydrate	146-14-5	Specialty chemicals
A2243	L-Glutathione oxidized BioChemica	27025-41-8	Specialty chemicals
A2084	L-Glutathione reduced BioChemica	70-18-8	Specialty chemicals
A2253	β-Glycerol Phosphate Disodium Salt 5-hydrate BioChemica	819-83-0	Specialty chemicals
Z46543	Guanosine low endotoxin, pure grade*	118-00-3	Specialty chemicals
A0700	Hypoxanthine BioChemica	68-94-0	Specialty chemicals
A7729	Hypoxanthine Sodium Salt BioChemica	45738-97-4	Specialty chemicals
A1124	NAD	53-84-9	Specialty chemicals
A1394	NADP Sodium Salt	1184-16-3	Specialty chemicals
A2217	Putrescine Dihydrochloride	333-93-7	Specialty chemicals
Z41683	Sodium L-Glutamate 1-hydrate (USP-NF) low in endotoxins pure, pharma grade*	6106-04-3	Specialty chemicals
A4859	Sodium Pyruvate for cell culture	113-24-6	Specialty chemicals
A0672	Spermine BioChemica	71-44-3	Specialty chemicals
A7080	Spermine Tetrahydrochloride BioChemica	306-67-2	Specialty chemicals
142050	Tween® 80 (USP-NF, BP, Ph. Eur.) pure, pharma grade	9005-65-6	Specialty chemicals
191754	Urea crystalline (USP, BP, Ph. Eur.) pharma grade	57-13-6	Specialty chemicals
A0666	Uridine BioChemica	58-96-8	Specialty chemicals
141013	L(+)-Ascorbic Acid (USP, BP, Ph. Eur.) pure, pharma grade	50-81-7	Vitamins
143977	D(+)-Biotin (USP) pure, pharma grade	58-85-5	Vitamins
A7092	Folic acid crystalline (Ph. Eur., USP) pure, pharma grade	59-30-3	Vitamins
A1716	myo-Inositol BioChemica	87-89-8	Vitamins
A4065	DL-α-Lipoic Acid BioChemica	1077-28-7	Vitamins
A0963	Nicotinic Acid (Ph. Eur., USP) pure, pharma grade	59-67-6	Vitamins
A2088	D-Pantothenic Acid Calcium Salt BioChemica	137-08-6	Vitamins
A0960	Pyridoxal Hydrochloride BioChemica	65-22-5	Vitamins
A8093	Pyridoxine Hydrochloride (Ph. Eur., USP) pure, pharma grade	58-56-0	Vitamins
A6279	Riboflavin (Ph. Eur., USP) pure, pharma grade	83-88-5	Vitamins
A0955	Thiamin Hydrochloride BioChemica	67-03-8	Vitamins
A8454	Vitamin B12 (Ph. Eur.) pure, pharma grade	68-19-9	Vitamins
141026	EDTA (USP-NF, BP, Ph. Eur.) pure, pharma grade	60-00-4	Cell dissociation
141669	EDTA Disodium Salt 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	6381-92-6	Cell dissociation
A3964	Trypsin from bovine pancreas	9002-07-7	Cell dissociation
631085	Ethanol 96% v/v (Ph.Eur, BP, USP) GMP - IPEC grade	64-17-5	Other
631086	Ethanol absolute (Ph. Eur, BP, USP, JP) GMP - IPEC grade	64-17-5	Other
143006	Hydrochloric Acid 10% w/w (USP-NF, Ph. Eur.) pure, pharma grade	7647-01-0	Other
143402	Sodium Hydroxide solution 25% w/w pure	1310-73-2	Other

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](mailto:biopharma@itwreagents.com) and we will be glad to support you.



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