

# MITIGATE SUPPLY CHAIN RISK WITH PharmaGrade™ AMINO ACIDS

Efficiently manage risk in your biopharmaceutical manufacturing with critical raw materials of known origin and history. PharmaGrade products take the guesswork out of sourcing by providing high quality products through a secure supply chain.

## AMINO ACIDS – SUITABLE FOR BIOPHARMACEUTICAL MANUFACTURING

Product Name	Product No.	CAS No.	Quality Level	Pack Sizes*
Glycine, Ajinomoto Amino Acid, EP, JP, USP	<a href="#">G5417</a>	56-40-6	GMP	1 kg, 10 kg, 25 kg
Glycine Hydrochloride	<a href="#">PHG0016</a>	6000-43-7	ELITE	1 kg, 10 kg, 25 kg, 50 kg
GlycylGlycine	<a href="#">G0674</a>	556-50-3	GMP	100 g
L-Alanine, Ajinomoto Amino Acid, EP, USP	<a href="#">A4349</a>	56-41-7	GMP	1 kg, 10 kg
L-Arginine Monohydrochloride, Ajinomoto Amino Acid, EP, JP, USP	<a href="#">A4599</a>	1119-34-2	GMP	1 kg, 10 kg, 25 kg
L-Arginine, Ajinomoto Amino Acid, EP, USP	<a href="#">A4474</a>	74-79-3	GMP	1 kg, 10 kg, 25 kg
L-Asparagine, FCC	<a href="#">RES10070-A7</a>	5794-13-8	ELITE	1 kg, 10 kg
L-Aspartic Acid, Ajinomoto Amino Acid, EP, USP	<a href="#">A5474</a>	56-84-8	GMP	1 kg, 10 kg, 25 kg
L-Cysteine Hydrochloride Monohydrate, Ajinomoto Amino Acid, EP, USP	<a href="#">C5610</a>	7048-04-6	GMP	1 kg, 10 kg, 25 kg
L-Cysteine, Ajinomoto Amino Acid	<a href="#">C5360</a>	52-90-4	GMP	1 kg, 10 kg, 25 kg
L-Cystine, EP	<a href="#">RES1520C-A7</a>	56-89-3	GMP	1 kg, 10 kg, 25 kg
L-Cystine Dihydrochloride, Non-Animal Derivative	<a href="#">RES1513C-A7</a>	30925-07-6	ELITE	10 kg
L-Glutamic Acid, Ajinomoto Amino Acid, EP	<a href="#">G5667</a>	56-86-0	GMP	1 kg, 10 kg, 25 kg
L-Glutamic Acid, Monosodium Salt, Low Endotoxin	<a href="#">RES5063G-A7</a>	6106-04-3	ELITE	1 kg, 10 kg, 25 kg
L-Glutamine, Ajinomoto Amino Acid, USP	<a href="#">G5792</a>	56-85-9	GMP	1 kg, 10 kg, 25 kg
L-Histidine Monohydrochloride Monohydrate, Ajinomoto Amino Acid, EP, JP	<a href="#">H4036</a>	5934-29-2	GMP	1 kg, 10 kg, 25 kg

\*Alternate pack sizes available upon request for some products.

January 2016



## AMINO ACIDS – SUITABLE FOR BIOPHARMACEUTICAL MANUFACTURING (CONTINUED)

Product Name	Product No.	CAS No.	Quality Level	Pack Sizes*
L-Histidine, Ajinomoto Amino Acid, EP, USP	<b>H3911</b>	71-00-1	GMP	1 kg, 10 kg, 25 kg
L-Isoleucine, Ajinomoto Amino Acid, EP, JP, USP	<b>I5281</b>	73-32-5	GMP	1 kg, 10 kg, 25 kg
L-Leucine, Ajinomoto Amino Acid, EP, JP, USP	<b>L6914</b>	61-90-5	GMP	1 kg, 10 kg, 25 kg
L-Lysine Monohydrochloride, Ajinomoto Amino Acid, EP, JP, USP	<b>L7039</b>	657-27-2	GMP	1 kg, 10 kg, 25 kg
L-Methionine, Ajinomoto Amino Acid, EP, JP, USP	<b>M8439</b>	63-68-3	GMP	1 kg, 10 kg, 25 kg
L-Phenylalanine, Ajinomoto Amino Acid, EP, JP, USP	<b>P8740</b>	63-91-2	GMP	1 kg, 10 kg, 25 kg
L-Proline, Ajinomoto Amino Acid, EP, JP, USP	<b>P8865</b>	147-85-3	GMP	1 kg, 10 kg, 25 kg
L-Serine, Ajinomoto Amino Acid SKK, EP, USP	<b>RES0908S-A7</b>	56-45-1	GMP	1 kg, 10 kg, 25 kg
L-Threonine, Ajinomoto Amino Acid, EP, JP, USP	<b>T4071</b>	72-19-5	GMP	1 kg, 10 kg, 25 kg
L-Tryptophan, Ajinomoto Amino Acid, EP, JP, USP	<b>T4196</b>	73-22-3	GMP	1 kg
L-Tyrosine, Ajinomoto Amino Acid, EP, USP	<b>T4321</b>	60-18-4	GMP	1 kg, 10 kg, 25 kg
L-Tyrosine, Disodium Salt, Dihydrate	<b>RES3156T-A7</b>	122666-87-9	ELITE	1 kg, 10 kg
L-Valine, Ajinomoto Amino Acid, EP, JP, USP	<b>V4638</b>	72-18-4	GMP	1 kg, 10 kg, 25 kg
N-Acetyl-DL-Tryptophan, EP	<b>ARK2160C</b>	87-32-1	GMP	1 kg, 10 kg, 25 kg
N-Acetyl-L-Tyrosine, Ajinomoto Amino Acid, EP	<b>T4446</b>	537-55-3	GMP	1 kg
Taurine, Ajinomoto Amino Acid	<b>T4571</b>	107-35-7	GMP	1 kg

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