

L-Glutamic Acid, U.S.P.
Multi-Compendial



Material No.: 2077-06

Revision No.: 0

Product Specification

Meets U.S.P Requirements, Meets B.P. Chemical Specifications, Meets E.P. Chemical Specifications, GMP Manufactured Product

Test	Specification
EP/BP - Identification A	Passes Test
EP/BP - Identification B	Passes Test
EP/BP - Assay ($C_5H_9NO_4$) (dried basis)	98.5 - 100.5 %
EP/BP - Appearance of Solution	Passes Test
EP/BP - Specific Rotation $[\alpha]^{25}_D$ (+)	30.5 - 32.5 °
EP/BP - Ninhydrin-Positive Substances	Passes Test
EP/BP - Chloride (Cl)	≤ 200 ppm
EP/BP - Sulfate (SO_4)	≤ 300 ppm
EP/BP - Ammonium (NH_4)	≤ 200 ppm
EP/BP - Iron (Fe)	≤ 10 ppm
EP/BP - Loss on Drying	≤ 0.5 %
EP/BP - Ash (sulfated)	≤ 0.1 %
USP - Assay ($C_5H_9NO_4$) (dried basis)	98.5 - 101.5 %
USP - Residue on Ignition	≤ 0.1 %
USP - Chloride (Cl)	≤ 0.02 %
USP - Sulfate (SO_4)	≤ 0.02 %
USP - Iron (Fe)	≤ 10 $\mu g/g$
USP - Related Compounds - Individual Impurities	≤ 0.5 %
USP - Related Compounds - Total Impurities	≤ 2.0 %
USP - Specific Rotation $[\alpha]^{25}_D$ (+)	31.5 - 32.5 °
USP - Loss on Drying at 105°C	≤ 0.1 %
USP - Identification	Passes Test
Endotoxin Concentration, EU/g	≤ 3.0

For questions on this Product Specification please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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GMP Manufactured Product

Bulk Pharmaceutical Chemical

CAUTION: For Manufacturing, processing or repackaging

No Class 1,2,3 or other solvents are used or produced in the manufacturing or purification of the product.

Elemental Impurities (USP 232, EP 5.20) - Information on elemental impurities for this product is available on the associated Product Regulatory Data Sheet and elemental impurity profile report.

Packaging Site: Paris Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

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