L-Cysteine Hydrochloride, Monohydrate
Multi-Compendial

Material No.: 2071-06
Revision No.: 0

Product Specification

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

Test	Specification
USP - Assay ($C_3H_7NO_2S \cdot HCl$) (dried basis)	98.5 - 101.5 %
USP - Identification	Passes Test
USP - Specific Rotation [Å]^{25} ^D (+)	5.7 - 6.8 °
USP - Loss on Drying	8.0 - 12.0 %
USP - Residue on Ignition	≤ 0.1 %
USP - Sulfate (SO_4)	≤ 0.03 %
USP - Iron (Fe)	≤ 0.003 %
USP - Related Compounds - Individual Impurities	≤ 0.5 %
USP - Related Compounds - Total Impurities	≤ 2.0 %
EP/BP - Assay ($C_3H_7NO_2S \cdot HCl$) (dried basis)	98.5 - 101.0 %
EP/BP - Identification A	Passes Test
EP/BP - Identification B	Passes Test
EP/BP - Identification E	Passes Test
EP/BP - Appearance of Solution	Passes Test
EP/BP - Specific Rotation [Å]^{20}^D (+)	5.5 - 7.0 °
EP/BP - Ninhydrin-Positive Substances - Impurity A	≤ 0.5 %
EP/BP-Ninhydrin-Positive Substances-Each	≤ 0.2 %
EP/BP-Ninhydrin-Positive Substances-Total Impurities	≤ 1.0 %
EP/BP - Sulfate (SO_4)	≤ 300 ppm
EP/BP - Ammonium (NH_4)	≤ 0.02 %
EP/BP - Iron (Fe)	≤ 20 ppm
EP/BP - Loss on Drying	8.0 - 12.0 %
EP/BP - Ash (sulfated)	≤ 0.1 %
Endotoxin Concentration, IU/mg, For Information Only	

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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Test	Specification

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.
Metallic Residues: No metal catalysts or metal reagents, as defined by EMA Guideline EMEA/CHMP/SWP/4446/2000 , are used in the
production of this material.

Packaging Site: Paris Mfg Ctr & DC