



L-Histidine, U.S.P. Multi-Compendial

Product No. 2080
Specifications current as of: Jun 8 2011

TEST	SPECIFICATION
GMP Manufactured Product	
Meets U.S.P. Requirements	
Assay (C ₆ H ₉ N ₃ O ₂) (dried basis)	98.5 - 101.5 %
Identification	Passes Test
Specific Rotation [α] ²⁵ _D	12.6 - 14.0 °
pH...	7.0 - 8.5
Loss on Drying at 105°C	max. 0.2 %
Residue on Ignition	max. 0.4 %
Chloride (Cl)	max. 0.05 %
Sulfate (SO ₄)	max. 0.03 %
Iron (Fe)	max. 0.003 %
Heavy Metals (as Pb)	max. 0.0015 %
Chromatographic Purity:	
Individual Impurities	max. 0.5 %
Total Impurities	max. 2.0 %
Meets F.C.C. Requirements	
Assay (C ₆ H ₉ N ₃ O ₂) (dried basis)	98.5 - 101.5 %
Identification	Passes Test
Lead (Pb)	max 5 mg/kg
Loss on Drying	max. 0.2 %
Residue on Ignition	max. 0.2 %
Specific Rotation [α] ²⁰ _D	11.5 - 13.5 °
Meets BP/Ph.Eur. Chemical Specifications	
Assay (C ₆ H ₉ N ₃ O ₂) (dried basis)	98.5 - 101.0 %
Identification A	Passes Test
Identification B	Passes Test
Appearance of Solution	Passes Test
Specific Rotation [α] ²⁰ _D	11.4 - 12.4 °

Ninhydrin-Positive Substances	max. 0.5 %
Chloride (Cl)	max. 200 ppm
Sulfate (SO ₄)	max. 300 ppm
Ammonium (NH ₄)	max. 200 ppm
Iron (Fe)	max. 10 ppm
Heavy Metals (as Pb)	max. 10 ppm
Loss on Drying	max. 0.5 %
Ash (sulfated)	max. 0.1 %
Endotoxin Concentration, IU/mg	Actual Value Reported

Meets JPC 1997 Requirements	
Assay (C ₆ H ₉ N ₃ O ₂) (dried basis)	min. 98.5 %
Identification	Passes Test
Optical Rotation [α] ²⁵ _D	11.8 - 12.8 °
pH	7.0 - 8.5
Clarity and Color of Solution	Passes Test
Chloride (Cl)	max. 0.021 %
Sulfate (SO ₄)	max. 0.028 %
Ammonium (NH ₄)	max. 0.02 %
Heavy Metals (as Pb)	max. 20 ppm
Arsenic (As)	max. 2 ppm
Other Amino Acids	Passes Test
Loss on Drying	max. 0.30 %
Residue on Ignition	max. 0.10 %

No Class 1,2,3 or other solvents are used or produced in the manufacturing or purification of the product.
Bulk Food Chemical
Bulk Pharmaceutical Chemical
CAUTION: For manufacturing, processing or repacking.
For a Certificate of Lot Analysis, visit www.avantormaterials.com .