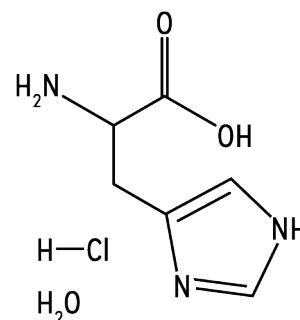


Product Specification

Product Name	L-Histidine Monohydrochloride Monohydrate
Compendia	USP/EP/JP
CAS #	5934-29-2
Formula	$C_6H_9N_3O_2 \cdot HCl \cdot H_2O$
Molecular Weight	209.63
Description	White crystals or crystalline powder; acid taste at first and slightly bitter taste later.
Solubility	Freely soluble in water and in formic acid, practically insoluble in ethanol (95). Dissolves in 6 mol/L hydrochloric acid.
Identification	Compare the infrared absorption spectrum of the sample with that of the standard by potassium bromide disc method.



Test	Specification
Specific Rotation @ 20°C	+9.2 to +10.6°
State of Solution	Clear and Colorless; Not less than 98.0%
Chloride (Cl)	18.22 to 18.68%
Ammonium (NH₄)	Not more than 0.02%
Sulfate (SO₄)	Not more than 0.020%
Iron (Fe)	Not more than 10ppm
Heavy Metals (Pb)	Not more than 10ppm
Arsenic (As₂O₃)	Not more than 1ppm
Related Substances	Any unspecified impurity: Not more than 0.20%; Total impurities: Not more than 0.50%
Residue on ignition (Sulfated)	Not more than 0.10%
Assay	99.0 to 101.0%
pH	3.5 to 4.5
Endotoxin	Less than 6.0 EU/g

Other Tests Specification

Water	7.2 to 10.0%
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