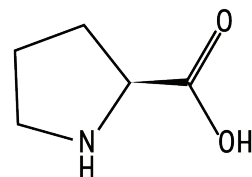


Product Specification

Product Name	L-Proline
Compendia	USP/EP/JP
CAS #	147-85-3
Formula	C ₅ H ₉ NO ₂
Molecular Weight	115.13
Description	White crystals or crystalline powder; slightly sweet taste.
Solubility	Very soluble in water and in formic acid, slightly soluble in ethanol (99.5). It is deliquescent.
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	-84.5 to -86.0°
State of Solution	Clear and colorless; Not less than 98.0%
Chloride (Cl)	Not more than 0.020%
Ammonium (NH₄)	Not more than 0.02%
Sulfate (SO₄)	Not more than 0.020%
Iron (Fe)	Not more than 10 ppm
Heavy Metals (Pb)	Not more than 10 ppm
Arsenic (As₂O₃)	Not more than 1 ppm
Related Substances	1) Conforms 2) Any unspecified impurity: Not more than 0.20%; Total impurities: Not more than 0.50%
Loss on Drying	Not more than 0.30%
Residue on Ignition (Sulfated)	Not more 0.10%
Assay	99.0 to 101.0%
pH	5.9 to 6.9
Endotoxin	Less than 6.0 EU/g