

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Specification Sheet

Product Name: **L-Proline**
Specifications & Purity: PharmPure™, USP, JP, Ph.Eur.
SKU #: **L774647**

Parameter	Limit Values
Appearance(L774647)	White or almost white, crystalline powder or colorless crystals
Solubility:very soluble in water,freely soluble in ethanol(96 per Pass cent)	
Assay(Perchloric acid titration, calc. on anhydrous substance)	99-101 (%)
Identity (IR-spectrum)	conforms
Identity(specific rotation)	passes test
Identity(TLC)	Passes test
Appearance of solution(50g/l;water),Clear and colorless	Pass
Spec.rotation (a 20/D,40 g/l, water, calc. on dried substance)	-86~-84 (°)
Spec.rotation(a 25/D,40 g/l, water, calc. on dried substance)	-86.3~-84.3 (°)
Chloride(Cl)	0-200 (ppm)
Sulfate(SO ₄)	0-300 (ppm)
Heavy metals(as Pb)	0-10 (ppm)
Fe(iron)	0-10 (ppm)
Manganese(Mn)	0-25 (ppm)
Zinc(Zn)	0-130 (ppm)
Ninhydrin-positive substances(LC)(any ninhydrin-positive impurity)	0-0.2 (%)
Ninhydrin-positive substances(LC)(ammonium(570nm)	0-0.02 (%)
Ninhydrin-positive substances(LC)(total impurities)	0-0.5 (%)
Residual solvents (ICH (Q3C))excluded by manufacturing process	pass
Sulfated ash(600 °C)	0-0.1 (%)
Loss on drying(105°C)	0-0.4 (%)
Bacterial endotoxins	0-5 (IU/g OR u/g)
Total aerobic microbial count (TAMC)	0-100 (cfu/g)
Total combined yeasts/moulds count (TYMC)	0-100 (cfu/g)
Appearance of solution (100 g/l, water),clear and colorless	Pass
pH(100 g/l,CO ₂ -free water)	5.9-6.9
Related substances(LC)	0-0.1 (%)
Ethanol	< 5000 (ppm)