

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Specification Sheet

Product Name: **L-Lysine monohydrochloride**  
 Specifications & Purity: PharmPure™, USP, BP, Ph.Eur., pharmaceutical grade, GMP  
 SKU #: **L433245**

Parameter	Limit Values
Assay(Perchloric acid titration, calc. on anhydrous substance)	98.5-101 (%)
Appearance(L433245)	white or almost white, crystalline powder or colourless crystals
Solubility:freely soluble in water, slightly soluble in ethanol (96 per cent)	Pass
Identity(IR)	Passes test
Identity(TLC)	Passes test
Identity(specific rotation)	passes test
Identity(Chloride)	Passes test
Identity(Precipitation test)	passes test
Appearance of solution(100 g/l, CO <sub>2</sub> --free water),clear and not more intense in color than reference solution B7 or GY7	Pass
Specific Rotation [a] <sub>D</sub> <sup>20</sup> (C=8 in hydrochloric acid R1,dried substance)	21-22.5 (°)
Specific Rotation [a] <sub>D</sub> <sup>20</sup> (C=8 in 6N HCl,calc. on dried substance)	20.4-21.4 (°)
pH(100g/l,CO <sub>2</sub> --free water)	5.0-6.0
Sulfate(SO <sub>4</sub> )	0-300 (ppm)
Fe(Iron)	0-30 (ppm)
Related Compounds(Individual impurities)	0-0.5 (%)
Related Compounds(Total impurities)	0-2 (%)
Ninhydrin-positive substances(LC)(any ninhydrin-positive impurity)	0-0.2 (%)
Ninhydrin-positive substances(LC)(ammonium(570 nm))	0-0.02 (%)
Ninhydrin-positive substances(LC)(total impurities)	0-1 (%)
Sulfated ash(600 °C)	0-0.1 (%)
loss on drying(105°C,3 h)	0-0.4 (%)
Ethanol(HS-GC)	0-3000 (ppm)
Other residual solvents(ICH Q3C) excluded by manufacturing process	passes test