


## CERTIFICATE OF ANALYSIS

Product Name:	L-Lysine HCl	Report Date:	Aug 04, 2017
Formula:	C <sub>6</sub> H <sub>15</sub> ClN <sub>2</sub> O <sub>2</sub>	Batch No.:	170802
CAS No.:	657-27-2	Manu. Date:	Aug 02, 2017
Inspection Standard:	USP38	Exp. Date:	Aug 01, 2019

## RESULTS OF ANALYSIS

Test Items	Specifications	Results
Appearance	White crystals or crystalline powder	Conforms
Identification	Infrared Absorption	Conforms
Specific rotation $[\alpha]_D^{25}$	+20.4 to +21.4°	+20.8°
Loss on Drying	Nor more than 0.4%	0.22%
Residue on ignition (Sulfated)	Not more than 0.1%	0.05%
Chloride(Cl)	19.0 to 19.6%	19.28%
Sulfate (SO <sub>4</sub> )	Not more than 0.03%	<0.03%
Iron(Fe)	Not more than 30ppm	<30ppm
Heavy metals(Pb)	Not more than 15ppm	<15ppm
Arsenic(As <sub>2</sub> O <sub>3</sub> )	Not more than 1ppm	<1ppm
Lead	Not more than 3ppm	<3ppm
Chromatographic purity	Not more than 0.5% of any individual impurity is found Nor more than 2.0% of total impurities is found	Conforms
Residue solvents	Meets the requirements	Conforms
Assay	98.5% to 101.5%	99.68%
Conclusion:	Conforms to the specifications of USP38 	

Analyst: **侯健之**

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