



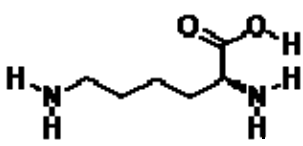
HANGZHOU DINGYAN CHEM CO., LTD

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CERTIFICATE OF ANALYSIS

NO: **DYC021401066**

Product name	L-Lysine monohydrochloride
CAS Number	657-27-2;10098-89-2
Molecule Structure	
Molecule Formula	C6H15ClN2O2
Batch number	20130321
Manufacture Date	2013-03-21
Testing date	2013-03-21

Items	Standard	Result
Appearance	White crystals or crystalline powder	Conforms
Assay	98.5%~101.5%	99.7%
Specific rotation $[\alpha]_D^{20}$	+20.4° ~+21.4°	+20.9°
Iron(Fe)	30ppm max	<30ppm
Chloride(Cl)	19.0~19.6%	19.37%
Sulfate(SO4)	0.03% max	<0.03%
Heavy metals, as Pb	15ppm max	<15ppm
Loss on drying	0.40% max	0.15%
Residue on ignition	0.10% max	0.06%
Chromatographic purity	Any individual impurity 0.5% max Total impurities 2.0% max	Conforms
Organic volatile impurities	Meets the requirements	Conforms
PH	5.5-7.0	5.8

Hangzhou Dingyan Chem Co., Ltd.
QUALITY CONTROL: *Xuefen Chen*
CHECK: 姚仙娟

INSPECTOR: 刘清风