

HEBEI CHANGHAO BIOTECHNOLOGY CO., LTD

河北昌昊生物科技有限公司

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### CERTIFICATE OF ANALYSIS

Product Name: L-Lysine HCL	
Batch No.: 20211206	Manufacture Date: 2021.12.06
CAS NO.: 657-27-2	Report Date: 2021.12.07
Quantity: 2000kg	Expiry Date: 2023.12.05

Items	Specification	Result
Appearance	White granule or powder	Conforms
Identification	Infrared Absorption	Qualified
Assay,%	98.5~101.5	99.5
Specification Rotation	+20.4° ~+21.4°	+21.1°
Loss on drying,%	≤0.4	0.28
Residue on ignition,%	≤0.1	0.07
Sulfate,%	≤0.03	<0.02
Iron,%	≤0.003	<0.001
Heavy metals,%	≤0.0015	<0.0015
Chloride,%	19.0~19.6	19.32
Chromatographic purity, %	Total impurities ≤2.0 Individual impurities ≤0.5	Conforms
Organic volatile impurities	Meets the requirements	Conforms
Conclusion: The goods conforms to USP40 Standard.		

Inspector: Kong Fei

Checker: Wang Shuli

