

# HEBEI HUAYANG BIOLOGICAL TECHNOLOGY CO.,LTD

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## CERTIFICATE OF ANALYSIS

Product Name: L-Lysine Hcl Monohydrate	Quantity: 500kgs	Batch No: 2412270822
Packing: 25kgs/drum	Producing date: 2024.08.22	Expiry date: 2026.08.21
Reference standard: USP32		
Item	Specifications	Results
Apperance	White Crystalline Powder	Conforms
Identification	Infrared Absorption	Positive
Specific optical rotation	+20.4° ~ +21.4°	+20.9°
Assay ,%	98.5 ~ 101.5	99.4
Loss on drying,%	≤0.4	0.33
Heavy metals ,% ( as Pb )	≤0.001	<0.001
Residue on ignition,%	≤0.1	0.04
Chloride ,% ( as Cl )	19.0 ~ 19.6	19.35
Sulfate(SO <sub>4</sub> ),% ( as SO <sub>4</sub> )	≤0.03	<0.03
Iron(as Fe),%	≤0.003	<0.003
Organic volatile impurities	Meet the requirement	Meet the requirement
Chromatographic purity	Meet the requirement	Meet the requirement
Residual solvents	No residual solvents	No residual solvents
Conclusion: This product conforms to requirement of USP32 standard.		

Operator: Duan Lan

Checker: Jia Jingtang

