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## CERTIFICATE OF ANALYSIS

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Product	L-Lysine, monohydrochloride
Grade	USP 39
Product Code	LB0171(D0171)
Formula	$C_6H_{14}N_2O_2 \cdot HCl$
MW	182.65
CAS#	657-27-2
Lot No	

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Test Items	Specifications	Results
Appearance	White crystals or crystalline powder or crystalline particles	
Infrared spectrum	Conforms to Structure	
Assay (Dry basis)	98.5 – 101.0%	
Chloride	19.0-19.6%	
Residue on Ignition	≤0.10%	
Sulfate	≤0.03%	
Iron	≤30ppm	
Heavy Metals(As Pb)	≤15ppm	
Related Compounds	individual impurity ≤0.5% total impurities ≤2.0%	
Specific Rotation $[\alpha]_D^{25}$	+20.4 ~ +21.4°	
Loss on drying	≤0.40%	

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Storage: 18~25°C.