



Bio Basic Inc.

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CERTIFICATE OF ANALYSIS

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	

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	$\leq 0.10\%$	
Sulfate	$\leq 0.03\%$	
Iron	$\leq 30\text{ppm}$	
Heavy Metals(As Pb)	$\leq 15\text{ppm}$	
Related Compounds	individual impurity $\leq 0.5\%$ total impurities $\leq 2.0\%$	
Specific Rotation $[\alpha]_D^{25}$	$+20.4 \sim +21.4^\circ$	
Loss on drying	$\leq 0.40\%$	

Storage: 18~25°C.

OF 21 Rev 2017

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