



**Specification for L-Lysine Monohydrochloride, USP, JP,
bioCERTIFIED(TM) (LY980)**

Item Number	LY980
Item	L-Lysine Monohydrochloride, USP, JP, bioCERTIFIED(TM)
CAS Number	657-27-2
Molecular Formula	C ₆ H ₁₄ N ₂ O ₂ •HCl
Molecular Weight	182.65
MDL Number	
Synonyms	

Test	Specification	
	Min	Max
APPEARANCE		
IDENTIFICATION	TO PASS TEST	
ASSAY (DRIED BASIS)	98.5	101.5%
pH	5.0	6.0
CHLORIDE (Cl)	19.0	19.6%
SPECIFIC ROTATION (DRIED BASIS, JP) [α] ₂₀ ^D	+19.0° to +21.5°	
SPECIFIC ROTATION (DRIED BASIS, USP) [α] ₂₅ ^D	+20.4° to +21.4°	
APPEARANCE OF SOLUTION	CLEAR, COLORLESS	
LOSS ON DRYING		0.40%
RESIDUE ON IGNITION		0.10%
RELATED SUBSTANCES (JP-TLC METHOD)	CONFORMS	
RELATED COMPOUNDS (USP-TLC METHOD):		
ANY UNSPECIFIED IMPURITY		0.5%
TOTAL IMPURITIES		2.0%
AMMONIUM		0.02%
SULFATE (SO ₄).		0.028%
IRON (Fe)		30 ppm
HEAVY METALS (Pb)		10 ppm
ELEMENTAL IMPURITIES	AS REPORTED	
MICROBIAL LIMITS:		
BACTERIAL ENDOTOXIN (BET)		6.0 EU/g
TOTAL MICROORGANISM		100 CFU/g
MOLD		10 CFU/g
EXPIRATION DATE		

Test	Specification	
	Min	Max
DATE OF MANUFACTURE		
MONOGRAPH EDITION		
MONOGRAPH EDITION.		
RESIDUAL SOLVENTS	AS REPORTED	

Spectrum Chemical Mfg Corp

<i>Corporate Headquarters:</i>	<i>West Coast Facility:</i>
769 Jersey Ave.	14422 S. San Pedro St.
New Brunswick, NJ 08901	Gardena, CA 90248
732.214.1300	310.516.8000