



## AnMar International Ltd.

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### SPECIFICATION SHEET L-Lysine monohydrochloride, powder

Item Code: 308

Country of Origin: China

Updated: April 2012

TEST ITEMS	SPECIFICATIONS	TEST METHODS
Description	White crystals or crystalline powder	USP32
Identification	IR spectrum	USP32 <197K>
Specific Rotation $[\alpha]_{D20}^{\circ}$	+ 20.4° ~ + 21.4°	USP32 <781S>
Chloride (Cl)	19.0% ~ 19.6%	USP32 <221>
Sulfate (SO <sub>4</sub> )	≤0.03%	USP32 <221>
Iron (Fe)	≤30 ppm	USP32 <241>
Heavy Metals	≤15 ppm	USP32 <231>
Lead (Pb)	≤ 5 ppm	FCC VII
Chromatographic Purity	Meet USP requirements	USP32 <621>
Other Amino acids	Chromatographically not detectable	AJI92 <Test 9>
Loss on Drying	≤0.40%	USP32 <731>
Residual Solvents	Meet USP requirements	USP32 <467>
Residue on Ignition	≤0.10%	USP32 <281>
Assay	98.5% ~ 101.5%	USP32
pH	5.0 ~ 6.0	USP32 <791>
Particle size	80 to 100 mesh	
Microbiology:		
Total aerobic plate count	≤1,000 cfu/g	
Yeast & Mold	≤100 cfu/g	
E. coli	Negative	
Salmonella	Negative	
Conclusion:	Conforms to USP32 standards	
Packaging:	In drums of 25 kgs	
Shelf Life:	2 years	

- Kosher certified