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SPECIFICATION SHEET L-Arginine Base

Item Code: 300B

Country of Origin: China

Updated: October 2012

CAS No.: 74-79-3

Molecular Formula: $C_6H_{14}N_4O_2$

Molecular Weight: 174.20

TEST ITEMS	SPECIFICATIONS	TEST METHODS
Appearance	White powder	Visual
Identification	As per USP	USP31<197K>
Specific Rotation	+ 26.3° to + 27.7°	USP31<781S>
Loss on Drying	≤0.5%	USP31<731>
Residue on Ignition	≤0.3%	USP31<281>
Chloride	≤0.05%	USP31<221>
Sulfate	≤0.03%	USP31<221>
Iron	≤30 ppm	USP31<241>
Heavy Metals	≤15 ppm	USP31<231>
Chromatographic Purity	≤2.0%	USP31<621>
Each Individual Impurity	≤0.5%	USP31<621>
Organic volatile Impurities	As per USP	USP31<467>
Residual solvents	As per USP	USP31
Assay	98.5% - 101.5%	USP31
Microbiology:		
Total aerobic plate count	≤1,000 cfu/g	CP
Yeast & Mold	≤100 cfu/g	CP
E. coli	Negative	CP
Salmonella	Negative	CP
S. aureus	Negative	CP

Conclusion: Conforms to USP31 standards

Shelf Life: 3 years

Storage: Preserve in a well-closed container, protected from intense light, heat & moisture

Packing: In drums of 25 kgs

Gayathri Vasudevan

Manager, Quality Assurance & Regulatory