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CERTIFICATE OF ANALYSIS

Product Name:	L-Arginine	CAS No.:	74-79-3
Quantity:	Sample	Manufacture Date:	Dec. 22, 2011
Batch No.:	52111211	Analysis Date:	Dec. 26, 2011
Quality Standard:	AJI92	Expiry Date:	Dec. 21, 2013
Test Items	Limit	Result	
Identification	as per AJI92	conform	
Appearance	white crystals or crystalline powder	conform	
Specific rotation $[\alpha]^{20}_D$	+26.9° to +27.9°	+27.3°	
State of solution	clear and colorless	98.2%	
	not less than 98.0%		
Chloride (Cl)	not more than 0.020%	<0.02%	
Ammonium (NH ₄)	not more than 0.02%	<0.02%	
Sulfate (SO ₄)	not more than 0.020%	<0.02%	
Iron (Fe)	not more than 10ppm	<10ppm	
Heavy metals (Pb)	not more than 10ppm	<10ppm	
Arsenic (As ₂ O ₃)	not more than 1ppm	<1ppm	
Other amino acids	Chromatographically not detectable	conform	
Loss on drying	not more than 0.5%	0.2%	
Residue on Ignition	not more than 0.10%	0.04%	
Assay	99.0% to 101.0%	99.7%	
pH	10.5 to 12.0	10.9	
Conclusion: The products conform to AJI92 standard.			
Analyst: 涂静 胡昌清 张冰 万东静		Verifier: 郭刚	
Storage: Preserve in well-closed containers and protected from light			