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CERTIFICATE OF ANALYSIS

Product Name:	L-Tyrosine	CAS No.:	60-18-4
Quantity:	Sample	Manufacture Date:	Dec. 02, 2011
Batch No.:	5611421	Analysis Date:	Dec. 06, 2011
Quality Standard:	AJI92	Expiry Date:	Dec. 01, 2013
Test Items	Limit	Result	
Identification	as per AJI92	conform	
Appearance	white crystals or crystalline powder	conform	
Specific rotation $[\alpha]_D^{20}$	-11.3° to -12.1°	-11.6°	
State of solution	clear, not less than 95.0%	97.4%	
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	conforms	conform	
Loss on drying	not more than 0.20%	0.12%	
Residue on Ignition	not more than 0.10%	0.04%	
Assay	99.0% to 100.5%	99.46%	
pH	5.0 to 6.5	6.0	
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			