

Shine Star (Hubei) Biological Engineering Co., Ltd.

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CERTIFICATE OF ANALYSIS

Product Name:	L-Tyrosine	CAS No.:	60-18-4
Quantity:	Sample	Manufacture Date:	Dec. 06, 2011
Batch No.:	5611425	Analysis Date:	Dec. 11, 2011
Quality Standard:	EP6	Expiry Date:	Dec. 05, 2013
Test Items	Limit	Result	
Identification:	Conforms (As per EP6)	Conforms	
Appearance:	A white or almost white crystalline powder or colorless crystals	Conforms	
Appearance of solution:	Clear and not more intensely colored than reference solution Y ₇	Conforms	
Specific rotation:	-11.0° to -12.3°	-11.5°	
Ninhydrin-positive substances:	Conforms (As per EP6)	Conforms	
Chlorides:	≤200ppm	<200ppm	
Sulfates:	≤300ppm	<300ppm	
Ammonium:	≤200ppm	<200ppm	
Iron:	≤10ppm	<10ppm	
Heavy Metals:	≤10ppm	<10ppm	
Loss on drying:	≤0.5%	0.15%	
Sulphated Ash:	≤0.1%	<0.1%	
Assay:	99.0% to 101.0% , on dry	99.90%	
Conclusion: The products conform to EP6 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			