

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

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CERTIFICATE OF ANALYSIS

Product Name	L-Tyrosine	CAS No.	60-18-4
Quantity	1000kgs	Manufacture Date	Jul 02, 2020
Batch No.	56203006	Analysis Date	Jul 12, 2020
Quality Standard	USP41	Expiry Date	Jul 01, 2022
Test Items		Limit	Result
Appearance		white crystalline powder or colourless crystals	conform
Identification		as per USP41	conform
Specific rotation $[\alpha]_D^{25}$		-9.8° to -11.2°	-10.9°
Loss on drying		not more than 0.3%	0.14%
Residue on ignition		not more than 0.4%	0.04%
Chloride		not more than 0.04%	<0.04%
Sulfate		not more than 0.04%	<0.04%
Iron		not more than 0.003%	<0.003%
Heavy metals		not more than 0.0015%	<0.0015%
Arsenic (As ₂ O ₃)		not more than 1ppm	<1ppm
Lead		≤3ppm	<3ppm
Cadmium		≤1ppm	<1ppm
Mercury		≤0.1ppm	<0.1ppm
Related Compounds		as per USP41	conform
Assay		98.5% to 101.5%	99.6%
Total Plate Count		≤1000cfu/g	Qualified
Yeasts		<50 cfu/g	Qualified
Molds		<50 cfu/g	Qualified
E.coli		Negative/1g	Qualified
Salmonella		Negative/10g	Qualified
Staphylococcus aureus		Negative/1g	Qualified
Mesh size		98% through 30mesh and 90% through 60mesh	Conform
Bulk density		26.00-45.00g/100ml	Conform
Conclusion: The products conform to USP41 standard.			
Reported by: 陈燕		Verified by: 郭刚	
Storage: Preserve in well-closed containers and protected from light			

