

Wuhan Amino Acid Bio-Chemical Co., Ltd.

武汉阿米诺科技有限公司

Add: Bonded Warehouse Building, Wuhan Economic & Technology Development Zone, Wuhan, China

中国武汉市经济技术开发区保税仓库大楼

CERTIFICATE OF ANALYSIS

Product:L-Tryptophan

Batch No.: 20240803

Quantity: 25kg

Expiry Date:Aug.,02,2026

CAS. No.: 73-22-3

Manu. Date:Aug.,03,2024

Inspecting Date:Aug.,03,2024

Item	Specification	Test result
Appearance	White to yellowish white crystals or crystalline powder	Conforms
Identification	Conforms EP9.0	Conforms
Appearance of solution	Clear and not more internsely coloured than solution BY ₆	Conforms
Specific rotation[α] _D ²⁰	-30.0° to -33.0°	-31.2°
Ninhydrin-positive substances	Substance:for each impurity,Maximum 0.2% Total Maximum0.5%	Conforms
Impurity A and other related substances	1,Impurity A ≤10ppm	Conforms
	2, Sum of impurities with a retention time less than that of tryptophan ≤100ppm	
	3,Sum of impurities with a retention time greater than that of tryptophan and up tp 1.8 times the retention time of N-acetyltryptophan ≤300ppm	
Chloride (Cl)	Not more than 200ppm	<200ppm
Ammonium(NH ₄)	Not more than 200ppm	<200ppm
Sulfate (SO ₄)	Not more than 300ppm	<300ppm
Iron (Fe)	Not more than 20ppm	<20ppm
Heavy metals(Pb)	Not more than 10ppm	<10ppm
Loss on drying	Not more than0.50%	0.12%
Residue on ignition	Not more than 0.10%	0.08%
Assay	98.5% to 101.0%	99.31%
Conclusion: The product conforms to the specification of EP9.0 standards.		

Analyst: [Signature]

Check: [Signature]



METAPHARMACEUTICAL

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[Signature] 07/10/2024