

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.: 20250305

Quantity: 50kg

Expiry Date: Mar., 04, 2027

CAS. No.: 73-22-3

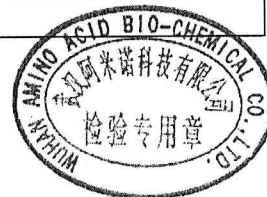
Manu. Date: Mar., 05, 2025

Inspecting Date: Mar., 05, 2025

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 intensely coloured than solution BY ₆	Conforms
Specific rotation $[\alpha]_D^{20}$	-30.0° to -33.0°	-31.3°
Ninhydrin-positive substances	Substance: for each impurity, Maximum 0.2% Total Maximum 0.5%	Conforms
Impurity A and other related substances	1, Impurity A ≤ 10 ppm	Conforms
	2, Sum of impurities with a retention time less than that of tryptophan ≤ 100 ppm	
	3, Sum of impurities with a retention time greater than that of tryptophan and up to 1.8 times the retention time of N-acetyltryptophan ≤ 300 ppm	
Chloride (Cl)	Not more than 200 ppm	< 200 ppm
Ammonium (NH ₄)	Not more than 200 ppm	< 200 ppm
Sulfate (SO ₄)	Not more than 300 ppm	< 300 ppm
Iron (Fe)	Not more than 20 ppm	< 20 ppm
Heavy metals (Pb)	Not more than 10 ppm	< 10 ppm
Loss on drying	Not more than 0.50%	0.07%
Residue on ignition	Not more than 0.10%	0.03%
Assay	98.5% to 101.0%	99.5%
Conclusion: The product conforms to the specification of EP9.0 standards.		

Analyst: [Signature]

Check: [Signature]



METAPHARMACEUTICAL

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