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 CAS. No.: 73-22-3
Batch No.: 20201116 Manu. Date:Nov.,16,2020
Quantity: 100kg Inspecting Date:Nov.,17,2020

Expiry Date:Nov.,15,2022

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[a] _D ²⁰	-30.0° to -33.0°	-31.2°
Ninhydrin-positive substances	Substance: for each impurity, Maximum 0.2% Total Maximum 0.5%	Conforms
	1,Impurity A≤10ppm	
Impurity A and other related substances	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	Conforms
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 than 0.50%	0.06%
Residue on ignition	Not more than 0.10%	0.05%
Assay	98.5% to 101.0%	99.3%
Conclusion. The product conforms to the specification of EP9 0 standards		

Conclusion: The product conforms to the specification of EP9.0 standards.

Analyst: Check: