Certificate Of Analysis

Product Name:	L-Tryptophan	**Manufacture Date:**	Oct.14, 2024
Batch Number:	XJKLSAS241014	**Analysis Date:**	Oct.19, 2024
Batch Quantity:	1000Kgs	**Expiration Date:**	Oct.13, 2027
Molecular Formula:	C11H12N2O2	**CAS No.::**	73-22-3

Items	Specification	Result
Assay	98.5%~101.5%	99.5%
Identification	Meets the requirements	Conforms
PHYSICAL CHARACTERISTICS		
Description	White to yellowish crystalline powder	Conforms
Speicific rotation[a]D20°	-29.4°~ -32.8°	-31.6°
PH	5.5~7.0	6.1
Loss on drying	≤0.2%	0.14%
Residue on ignition	≤0.1%	0.03%
CHEMICAL CHARACTERISTICS		
Chloride(CI)	≤0.02%	<0.02%
Sulfate(SO4)	≤0.02%	<0.02%
Ammonium(NH4)	≤0.02%	<0.02%
Iron(Fe)	≤0.003%	<0.003%
Heavy metals(Pb)	≤0.0015%	<0.0015%
Organic Volatile impurities	Meets the requirement	Conforms
MICROBIOLOGICAL CHARACTERISTICS		
Total Plate Count	Not more than1000cfu/g	Conforms
Mold & Yeast	Not more than 100cfu/g	Conforms
E.Coli	Negative	Not-detected
Salmonella	Negative	Not-detected
CONCLUSION	The product conformed with USP standard	

Packing description:	Sealed export grade drum & double of sealed plastic bag
Storage:	Store in cool & dry place., keep away from strong light and heat
Shelf life:	3 years when properly stored

Analyst： **Ma Bin**

Corrector： **Zhang Xue Jun**

SHAANXI SCIENCARIN BIO-TECH CO.,LTD 陕西希杰科生物科技有限公司 检验专用章 ANALYSIS SEAL