

CERTIFICATE OF ANALYSIS

Product Name	L-Tryptophan		
CAS no	73-22-3		
Batch Number	20211206	Manufacture Date	20211206
Reference standard:	USP32		
Report Date	20211206	Expiry Date	20241205

Item of Analysis	Specification	Results	Test Methods
Assay	98.5~101.5%	99.2%	HPLC
Organoleptic			
Appearance	Powder	Conforms	Organoleptic
Color	white-like crystalline powder	Conforms	Organoleptic
Odor	Characteristic	Conforms	CP2010
Taste	Characteristic	Conforms	CP2010
Physical Characteristics			
Particle Size	100% pass 80 mesh	80MESH	CP2010
Loss on drying	0.1%NMT (%)	0.02%	USP<731>
Total ash	0.3%NMT (%)	0.11%	USP<561>
Specific rotation	-29.4°~-32.8°	-31.3°	CP2010IA
Chloride	≤0.05%	≤0.05%	NLS-QCS-1007
Sulfate(SO4)	≤0.03%	<0.03%	USP32
Iron	≤0.003	<0.003%	USP32
Heavy metals			
Total Heavy Metals	≤0.0015%	<0.0015%	USP<231>method II
Microbiological Tests			
Total Plate Count	1000cfu/g Max	Conform	USP<61>
Yeast & Mold	100cfu/g Max	Conform	USP<61>
E. Coli.	Negative	Conform	USP<61>
Salmonella	Negative	Conform	USP<61>
Staphylococcus	Negative	Conform	USP<61>

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Shelf Life: 24 months if store under the conditions above and stay in original packaging.

