

CERTIFICATE OF ANALYSIS

Product Name:	5-hydroxy-L-tryptophan (5-HTP)		
CAS No.:	4350-09-8	Ref.Standard:	USP44
Batch No.:	20240605	Manuf. Date:	Jun. 05, 2024
Quantity:	200g	Re-test Date:	Jun. 04, 2027
Storage Condition:	Store in a well-closed container Away from moisture, light, oxygen.		

ITEM	SPECIFICATION	RESULTS	Method
Assay	≥99.0%	99.9%	HPLC
Appearance	White to Off-white Powder	Conforms	Organoleptic
Solubility	10mg per mL in water	Conforms	/
Identification	IR	Conforms	IR
Physical & Chemical Characteristics			
Particle size	95% pass 80 mesh	Conforms	Sieving
Bulk density	≥0.38g/ml	0.44g/ml	USP<616>
Tight density	≥0.58g/ml	0.68g/ml	USP<616>
pH	4.5-6.5	5.2	USP<791>
Loss on drying	≤1.0%	0.14%	USP<731>
Residue on ignition	≤0.3%	0.1%	USP<281>
Optical rotation	-30.0°~-35.0°	-32.9°	USP<781>
Total impurities	≤0.5%	0.24%	HPLC
	Peak X:Free	Conforms	HPLC
Biobased carbon	/	100%	AMS
Heavy Metals	≤10ppm	Conforms	USP<231>
Lead(Pb)	≤0.5ppm	Conforms	USP<730>
Arsenic(As)	≤0.5ppm	Conforms	USP<730>
Cadmium(Cd)	≤0.1ppm	Conforms	USP<730>
Mercury(Hg)	≤0.1ppm	Conforms	USP<730>
Microbiological Tests			
Total plate Count	≤1000cfu/g	Conforms	USP<2021>
Yeast & Mold	≤100cfu/g	Conforms	USP<2021>
Coliforms	≤10cfu/g	Conforms	USP<2021>
E.Coli.	Negative	Negative	USP<2022>
Salmonella	Negative	Negative	USP<2022>
Staphylococcus	Negative	Negative	USP<2022>
Conclusion:	Conform to the USP44 Standard		

Tested by:Tiantian Wang

Checked by:Yuanmeng Geng

