

CERTIFICATE OF ANALYSIS

Product Name	GRIFFONIA SEED EXTRACT (5-Hydroxytryptophan (5-HTP) 99%)		
Batch Number	RW-GS20201212	Botanical Source	Griffonia Simplicifolia
Manufacture Date	12/12/2020	Inspection Date	19/12/2022
Solvents Used:	Water & Ethanol	Part Used:	Seed

ITEMS	SPECIFICATION	METHOD	TEST RESULTS
Physical & Chemical Data			
Color	Off-White	Organoleptic	Qualified
Odour	Characteristic	Organoleptic	Qualified
Appearance	Fine Powder	Organoleptic	Qualified
Analytical Quality			
Identification	Identical to R.S. sample	HPTLC	Identical
L-5-Hydroxytryptophan	≥99.0%	HPLC	99.25%
Sieve Analysis	100 % through 80 mesh	USP36<786>	Qualified
Loss on Drying	≤1.0 %	Eur.Ph.7.0 [2.5.12]	0.06%
Total Ash	≤1.0 %	Eur.Ph.7.0 [2.4.16]	0.38%
Specific Rotation	-34.7~-30.9 °	Eur.Ph.7.0 [2.9.13]	-32.8°
Bulk Density	20~60 g/100ml	Eur.Ph.7.0 [2.9.34]	53.38 g/100ml
Tap Density	30~80 g/100ml	Eur.Ph.7.0 [2.9.34]	72.38 g/100ml
Contaminants			
Lead (Pb)	≤3.0 ppm	Eur.Ph.7.0 <2.2.58> ICP-MS	Qualified
Arsenic (As)	≤2.0 ppm	Eur.Ph.7.0 <2.2.58> ICP-MS	Qualified
Cadmium (Cd)	≤1.0 ppm	Eur.Ph.7.0 <2.2.58> ICP-MS	Qualified
Mercury (Hg)	≤0.1 ppm	Eur.Ph.7.0 <2.2.58> ICP-MS	Qualified
Solvents Residue	Meet Eur.Ph.7.0 <5.4>	Eur.Ph.7.0 <2.4.24>	Qualified
Pesticides Residue	Meet USP Requirements	USP36 <561>	Qualified
Microbiological			
Total Plate Count	≤1,000 cfu/g	USP <2021>	Qualified
Yeast & Mold	≤100 cfu/g	USP <2021>	Qualified
E.Coli.	Negative	USP <2022>	Negative
Salmonella	Negative	USP <2022>	Negative
General Status			
Non-Irradiation; Non GMO; No ETO Treatment; No Excipient			
Packing & Storage	Packed in paper-drums and two plastic-bags inside.		

