

QUALITY SPECIFICATION

5-Hydroxytryptophan

Catalog No.: NST-10-193

CAS No.: 4350-09-8

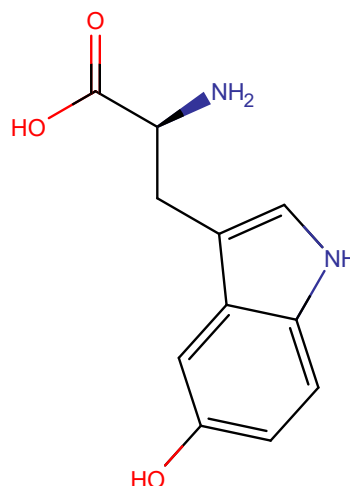
Molecular formula: C₁₁H₁₂N₂O₃

MW: 220.22

Botanical name: *Griffonia simplicifolia*

Part used: seeds

Shelf life: 2 years



No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	Off-white	Visual
3.	Identification	Conforms	TLC
4.	Assay	98.5% - 101.5%	USP 43
5.	Odor	Characteristic	Organoleptic
6.	Taste	Characteristic	Organoleptic
7.	Mesh size/sieve	≥95% pass 80 mesh	80 mesh
8.	Bulk density	≤0.8 g/ml	USP <616>
9.	Chloride	≤0.05 %	USP <221>
10.	Sulfate	≤0.03 %	USP <221>
11.	Residue on ignition	≤1.0 %	USP <281>
12.	Loss on drying	≤2.0 %	USP <731>
13.	pH	4.0-6.0	USP <791>
14.	Specific optical rotation	-30° to -38°	USP <781>

15.	Pesticide residues	USP <561>	Third lab
16.	Solvent residues	USP <467>	GC
17.	Heavy Metals	≤10 ppm	ICP-MS
18.	Lead	≤2 ppm	ICP-MS
19.	Arsenic	≤1 ppm	ICP-MS
20.	Mercury	≤0.1 ppm	ICP-MS
21.	Cadmium	≤1 ppm	ICP-MS
22.	TPC	<10 ³ CFU/g	USP <2021>
23.	TYMC	<10 ² CFU/g	USP <2021>
24.	<i>Escherichia Coli</i>	Absent	USP <2022>
25.	<i>Salmonella</i>	Absent	USP <2022>
26.	<i>Staphylococcus aureus</i>	Absent	USP <2022>

Storage: store in a cool and dry place, keep away from strong light and heat

Stability: 24 months when properly stored