NATURE SCIENCE TECHNOLOGIES

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CERTIFICATE OF ANALYSIS

Polydatin

LOT EX0220

Catalog No.: NST-10-35

CAS No.: 65914-17-2

Molecular formula: $C_{20}H_{22}O_8$

MW: 390.38

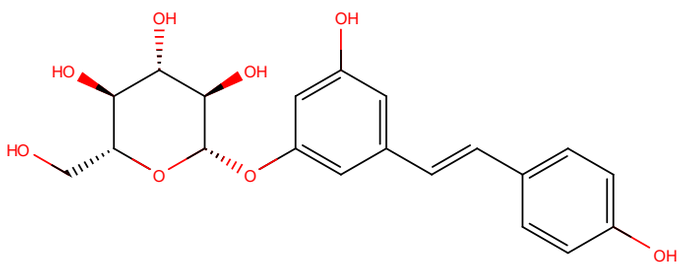
Botanical name: *Polygomum cuspidatum Sieb. et Zucc.*

Part used: root

Manufacturing date: 02.06.2026

Analysis date: 08.06.2026

Shelf life: 2 years



No.	Parameter	Specification	Results	Method
1.	Appearance	Fine powder	Conforms	Visual
2.	Color	Off-white	Conforms	Visual
3.	Odor	Characteristic	Conforms	Organoleptic
4.	Taste	Characteristic	Conforms	Organoleptic
5.	Mesh size/sieve	NLT 95% pass 80 mesh	Conforms	80 mesh
6.	Bulk density	NMT 0.8 g/mL	Conforms	USP <616>
7.	Loss on drying	≤ 5.0 %	1.29 %	USP <731>
8.	Residue on ignition	≤ 2.0 %	0.09 %	USP <281>
9.	Identification	Complies with standard	Conforms	TLC

10.	Assay (on dried basis)	≥ 98.0 %	98.42 %	HPLC
11.	Solvent residues	USP <467>	Conforms	GC
12.	Heavy Metals	≤10 ppm	Conforms	ICP-MS
13.	Lead	≤2 ppm	Conforms	ICP-MS
14.	Arsenic	≤1 ppm	Conforms	ICP-MS
15.	Mercury	≤0.1 ppm	Conforms	ICP-MS
16.	Cadmium	≤1 ppm	Conforms	ICP-MS
17.	TPC	Not more than 10^3 CFU/g	Conforms	USP <2021>
18.	TYMC	Not more than 10^2 CFU/g	Conforms	USP <2021>
19.	*E. Coli*	Absent	Conforms	USP <2022>
20.	*Salmonella*	Absent	Conforms	USP <2022>
21.	*Staphylococcus*	Absent	Conforms	USP <2022>

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

Stability: 24 months when properly stored