

QUALITY SPECIFICATION

Betulin

Catalog No.: NST-03-001

CAS No.: 473-98-3

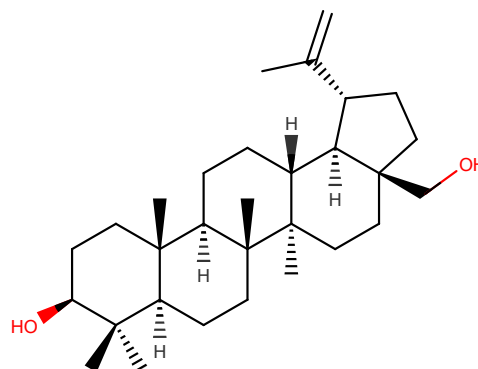
Molecular formula: $C_{30}H_{50}O_2$

MW: 442.73

Botanical name: *Betula platyphylla* Suk.

Part used: bark

Shelf life: 2 years



No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	White	Visual
3.	Odor	Characteristic	Organoleptic
4.	Taste	Characteristic	Organoleptic
5.	Mesh size/sieve	NLT 95% pass 80 mesh	80 mesh
6.	Bulk density	NMT 0.8 g/ml	USP <616>
7.	Loss on drying	≤5.0 %	USP <731>
8.	Residue on Ignition	≤2.0 %	USP <281>
9.	Identification	Complies with standard	TLC
10.	Assay (on dry basis)	≥98.0%	HPLC
11.	Solvent residues	USP<467>	GC
12.	Heavy Metals	≤10 ppm	ICP-MS
13.	Lead	≤2 ppm	ICP-MS
14.	Arsenic	≤1 ppm	ICP-MS
15.	Mercury	≤0.1 ppm	ICP-MS

16.	Cadmium	≤1 ppm	ICP-MS
17.	TPC	NMT 10 ³ CFU/g	USP <2021>
18.	TYMC	NMT 10 ² CFU/g	USP <2021>
19.	<i>Escherichia Coli</i>	Absent	USP <2022>
20.	<i>Salmonella</i>	Absent	USP <2022>
21.	<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