

## QUALITY SPECIFICATION

Birch Bark Extract 80% Betulin

Catalog No.: NST-01-010

Source: *Betula platyphylla* Suk.

Part used: Bark

Solvent used: Water and Ethanol

No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	Light brown to off-white	Visual
3.	Odor	Characteristic	Organoleptic
4.	Taste	Characteristic	Organoleptic
5.	Betulin	≥80.0%	HPLC
6.	Mesh size/Sieve	NLT95% pass 80 mesh	80 mesh
7.	Loss on Drying	≤ 5.0%	In house
8.	Sulfated ash	≤ 5.0%	In house
9.	Heavy metals	≤ 10 ppm	ICP-MS
10.	Lead	≤2 ppm	ICP-MS
11.	Arsenic	≤1 ppm	ICP-MS

12.	Mercury	≤0.1 ppm	ICP-MS
13.	Cadmium	≤1 ppm	ICP-MS
14.	TPC	Not more than 10 <sup>3</sup> CFU/g	ISO 6579:2002
15.	TYMC	Not more than 10 <sup>2</sup> CFU/g	ISO 6579:2002
16.	<i>Escherichia Coli</i>	Absent	ISO 6579:2002
17.	<i>Salmonella</i>	Absent	ISO 6579:2002
18.	<i>Staphylococcus aureus</i>	Absent	ISO 6579:2002

Storage: long term storage - airtight container +2 ... +8 °C

Stability: 24 months when properly stored