NATURE SCIENCE TECHNOLOGIES

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QUALITY SPECIFICATION

Dihydroberberine

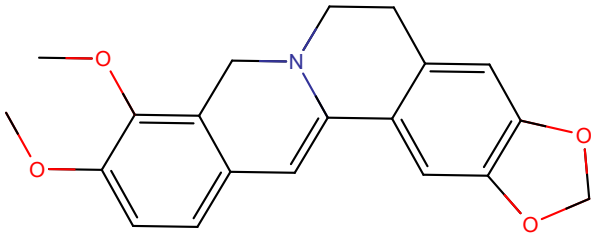
Catalog No.: NST-12-29

CAS No.: 483-15-8

Molecular formula: $C_{20}H_{19}NO_4$

MW: 337.37

Shelf life: 24 months



No.	Parameter	Specification	Method
1.	Appearance	Powder	Visual
2.	Color	Yellow	Visual
3.	Identification	HPLC retention time corresponds to RS	HPLC
4.	Assay (on dried basis)	≥98.0 %	HPLC
5.	Odor	Characteristic	Organoleptic
6.	Taste	Characteristic	Organoleptic
7.	Residue on ignition	≤1.0 %	USP <281>
8.	Loss on drying	≤1.0 %	USP <731>
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	$<10^3$ CFU/g	USP <2021>
15.	TYMC	$<10^2$ CFU/g	USP <2021>
16.	*Escherichia Coli*	Absent	USP <2022>

17.	*Salmonella*	Absent	USP <2022>
18.	*Staphylococcus aureus*	Absent	USP <2022>

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

Stability: 24 months when properly stored