

# QUALITY SPECIFICATION

## Artemisinin

Catalog No.: NST-10-121

CAS No.: 63968-64-9

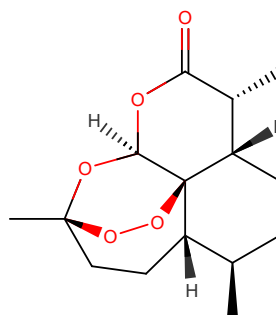
Molecular formula: C<sub>15</sub>H<sub>22</sub>O<sub>5</sub>

MW: 282.33

Botanical name: *Artemisia annua* L.

Part used: aerial part

Shelf life: 2 years



No.	Parameter	Specification	Method
1.	Appearance	Crystalline 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.	Loss on drying	≤ 5.0 %	USP <731>
7.	Residue on ignition	≤ 2.0 %	USP <281>
8.	Assay	≥ 98.0 %	HPLC
9.	Pesticide residues	USP <561>	Third lab
10.	Solvent residues	USP <467>	GC
11.	Heavy Metals	≤10 ppm	ICP-MS
12.	Lead	≤2 ppm	ICP-MS
13.	Arsenic	≤1 ppm	ICP-MS
14.	Mercury	≤0.1 ppm	ICP-MS

15.	Cadmium	≤1 ppm	ICP-MS
16.	TPC	Not more than 10 <sup>3</sup> CFU/g	USP <2021>
17.	TYMC	Not more than 10 <sup>2</sup> CFU/g	USP <2021>
18.	<i>Escherichia Coli</i>	Absent	USP <2022>
19.	<i>Salmonella</i>	Absent	USP <2022>
20.	<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