NATURE SCIENCE TECHNOLOGIES

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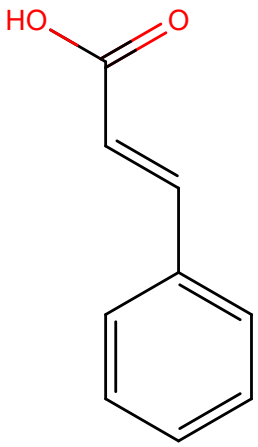
QUALITY SPECIFICATION

Cinnamic acid



Catalog No.: NST-12-90

CAS No.: 140-10-3

Molecular formula: $C_9H_8O_2$

MW: 148.16

Shelf life 2 years

No.	Parameter	Specification	Method
1.	Appearance	Powder	Visual
2.	Color	White	Visual
3.	Identification	Conforms	TLC&NMR
4.	Residue on Ignition	≤0.05%	USP <281>
5.	Assay	≥99.0%	HPLC
6.	Heavy Metals	≤10 ppm	ICP-MS
7.	Lead	≤2 ppm	ICP-MS
8.	Arsenic	≤1 ppm	ICP-MS
9.	Mercury	≤0.1 ppm	ICP-MS
10.	Cadmium	≤1 ppm	ICP-MS
11.	TPC	$<10^3$ CFU/g	USP <2021>
12.	TYMC	$<10^2$ CFU/g	USP <2021>
13.	*Escherichia Coli*	Absent	USP <2022>
14.	*Salmonella*	Absent	USP <2022>

15.	*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