

QUALITY SPECIFICATION

Piperine

Catalog No.: NST-10-52

CAS No.: 94-62-2

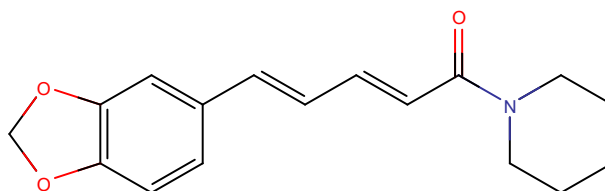
Molecular formula: C₁₇H₁₉NO₃

MW: 285.34

Botanical name: *Piper nigrum* L.

Part used: fruit

Shelf life: 2 years



No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	Off-white	Visual
3.	Identification	Complies with standard	TLC
4.	Assay	≥98.0 %	HPLC
5.	Odor	Characteristic	Organoleptic
6.	Taste	Characteristic	Organoleptic
7.	Sulfated ash	≤2.0 %	Ph. Eur.2.4.14
8.	Loss on drying	≤5.0 %	Ph. Eur.2.8.17
9.	Mesh size/sieve	≥95 % pass 80 mesh	80 mesh
10.	Bulk density	≤0.8 g/ml	Density meter
11.	Pesticide residues	EC 396/2005	Third lab
12.	Benzo[a]pyrene	<10 ppb	HPLC
13.	Sum of PAHs	<50 ppb	HPLC
14.	Solvent residues	≤5000 ppm	GC

15.	Heavy Metals	≤ 10 ppm	ICP-MS
16.	Lead	≤ 2 ppm	ICP-MS
17.	Arsenic	≤ 1 ppm	ICP-MS
18.	Mercury	≤ 0.1 ppm	ICP-MS
19.	Cadmium	≤ 1 ppm	ICP-MS
20.	TPC	$< 10^3$ CFU/g	AOAC, BAM
21.	TYMC	$< 10^2$ CFU/g	AOAC, BAM
22.	<i>Escherichia Coli</i>	Absent	AOAC, BAM
23.	<i>Salmonella</i>	Absent	AOAC, BAM
24.	<i>Staphylococcus aureus</i>	Absent	AOAC, BAM

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

Stability: 24 months when properly stored