NATURE SCIENCE TECHNOLOGIES

E-mail: inquiries@nstchemicals.com
nstchemicals.com
Phone: +371 24220280

QUALITY SPECIFICATION

Fisetin

Catalog No.: NST-10-62

CAS No.: 528-48-3

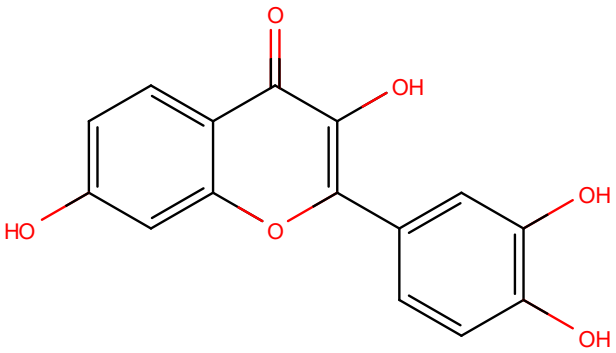
Molecular formula: $C_{15}H_{10}O_6$

MW: 286.24

Botanical name: *Cotinus coggygria Scop.*

Used part: bark and stem

Shelf life: 24 months



No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	Light yellow	Visual
3.	Odor	Characteristic	Organoleptic
4.	Taste	Characteristic	Organoleptic
5.	Mesh size/sieve	≥95 % pass 80 mesh	80 mesh
6.	Bulk density	≤0.8 g/mL	USP <616>
7.	Loss on drying	≤5.0 %	USP <731>
8.	Residue on ignition	≤5.0 %	USP <281>
9.	Identification	Complies with standard	TLC
10.	Assay	≥98.0 %	HPLC
11.	Solvent residues	USP <467>	GC
12.	Heavy Metals	≤10 ppm	ICP-MS
13.	Lead	≤2 ppm	ICP-MS
14.	Arsenic	≤1 ppm	ICP-MS

15.	Mercury	≤0.1 ppm	ICP-MS
16.	Cadmium	≤1 ppm	ICP-MS
17.	TPC	$<10^3$ CFU/g	USP <2021>
18.	TYMC	$<10^2$ CFU/g	USP <2021>
19.	*Escherichia Coli*	Absent	USP <2022>
20.	*Salmonella*	Absent	USP <2022>
21.	*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