

QUALITY SPECIFICATION

Phloretin

Catalog No.: NST-10-103

CAS No.: 60-82-2

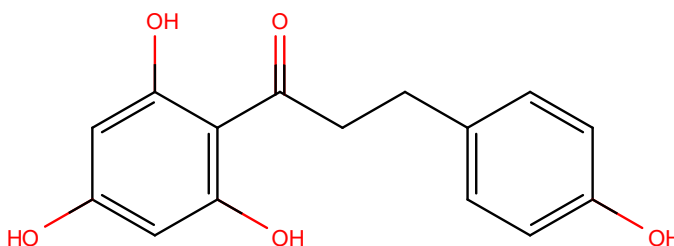
Molecular formula: C₁₅H₁₄O₅

MW: 274.27

Botanical name: *Malus domestica*

Part used: peel

Shelf life: 2 years



No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	Off-white	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	≤2.0 %	USP <281>
9.	Identification	Complies with standard	TLC
10.	Assay	≥98.0 %	HPLC
11.	Pesticide residues	USP <561>	Third lab
12.	Solvent residues	USP <467>	GC
13.	Heavy Metals	≤10 ppm	ICP-MS
14.	Lead	≤2 ppm	ICP-MS

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

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

Stability: 24 months when properly stored