NATURE SCIENCE TECHNOLOGIES

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QUALITY SPECIFICATION

Luteolin

Catalog No.: NST-10-77

CAS No.: 491-70-3

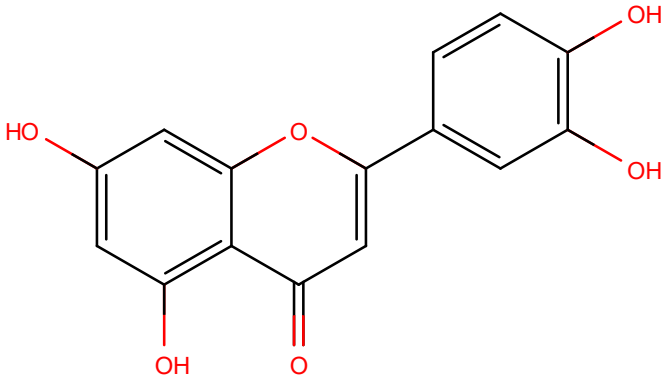
Molecular formula: $C_{15}H_{10}O_6$

MW: 286.24

Botanical name: *Sophora japonica L.*

Part used: buds

Shelf life: 2 years



No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	Pale yellow	Visual
3.	Odor	Characteristic	Organoleptic
4.	Taste	Characteristic	Organoleptic
5.	Mesh size/sieve	NLT 95% pass 80 mesh	80 mesh
6.	Bulk density	NMT 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.	Purity	≥ 98.0 %	HPLC
11.	Assay	≥ 95.0 %	HPLC
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	Not more than 10^2 CFU/g	USP <2021>
18.	TYMC	Not more than 10 CFU/g	USP <2021>
19.	*Escherichia Coli*	Absent	USP <2022>
20.	*Salmonella*	Absent	USP <2022>
21.	*Staphylococcus aureus*	Absent	USP <2022>
22.	*Candida albicans*	Absent	USP <2022>
23.	*Pseudomonas Sp.*	Absent	USP <2022>

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

Stability: 24 months when properly stored