

QUALITY SPECIFICATION

Diosmin

Catalog No.: NST-10-126

CAS No.: 520-27-4

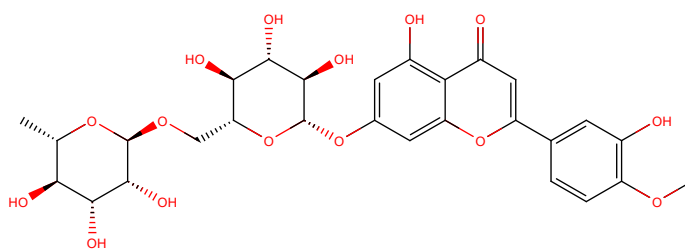
Molecular formula: $C_{28}H_{32}O_{15}$

MW: 608.54

Botanical name: *Citrus Aurantium L.*

Part used: fruit

Shelf life: 2 years



No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	Light brown	Visual
3.	Identification	Conforms	TLC
4.	Assay	≥90.0 %	HPLC
5.	Odor	Characteristic	Organoleptic
6.	Taste	Characteristic	Organoleptic
7.	Mesh size/sieve	≥95% pass 80 mesh	80 mesh
8.	Bulk density	≤0.8 g/ml	Density meter
9.	Sulfated ash	≤0.2 %	EP 11.0
10.	Water	≤6.0 %	EP 11.0
11.	Impurity A	≤0.5 %	HPLC
12.	Impurity B	≤4.0 %	HPLC
13.	Impurity C	≤3.0 %	HPLC
14.	Impurity D	≤0.6 %	HPLC

15.	Impurity E	≤3.0 %	HPLC
16.	Impurity F	≤2.0 %	HPLC
17.	Unspecified impurities (each impurity)	≤0.4 %	HPLC
18.	Total impurities	≤8.5 %	HPLC
19.	Pesticide residues	EC 396/2005	Third lab
20.	Solvent residues	≤5000 ppm	GC
21.	Heavy Metals	≤10 ppm	ICP-MS
22.	Lead	≤2 ppm	ICP-MS
23.	Arsenic	≤1 ppm	ICP-MS
24.	Mercury	≤0.1 ppm	ICP-MS
25.	Cadmium	≤1 ppm	ICP-MS
26.	TPC	<10 ³ CFU/g	USP <2021>
27.	TYMC	<10 ² CFU/g	USP <2021>
28.	<i>Escherichia Coli</i>	Absent	USP <2022>
29.	<i>Salmonella</i>	Absent	USP <2022>
30.	<i>Staphylococcus aureus</i>	Absent	USP <2022>

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

Stability: 24 months when properly stored