NATURE SCIENCE TECHNOLOGIES

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CERTIFICATE OF ANALYSIS

Neohesperidin Dihydrochalcone

LOT EX0260

Catalog No.: NST-10-179

CAS No.: 20702-77-6

Molecular formula: $C_{28}H_{36}O_{15}$

MW: 612.58

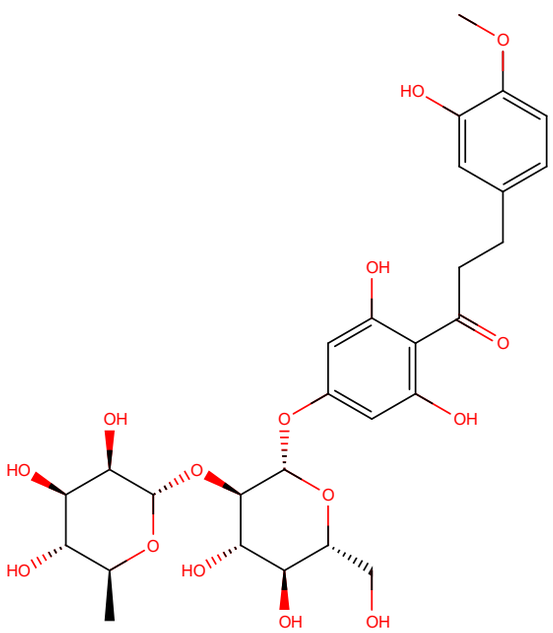
Source: *Citrus L.*

Part used: fruit

Manufacturing date: 12.11.2025

Analysis date: 20.11.2025

Shelf life: 24 months



No.	Parameter	Specification	Results	Method
1.	Appearance	Fine powder	Conforms	Visual
2.	Color	Off-white	Conforms	Visual
3.	Identification	Conforms	Conforms	TLC
4.	Assay	≥98.0 %	99.86 %	HPLC
5.	Odor	Characteristic	Conforms	Organoleptic
6.	Taste	Characteristic	Conforms	Organoleptic
7.	Residue on ignition	≤2.0 %	0.47 %	USP <281>
8.	Loss on drying	≤12.0 %	8.78 %	USP <731>
9.	Mesh size/sieve	≥95 % pass 80 mesh	Conforms	80 mesh
10.	Bulk density	≤0.8 g/ml	Conforms	USP <616>

11.	Solvent residues	USP <467>	Conforms	GC
12.	Pesticide residues	USP <561>	Conforms	Third lab
13.	Heavy Metals	≤10 ppm	Conforms	ICP-MS
14.	Lead	≤2 ppm	Conforms	ICP-MS
15.	Arsenic	≤1 ppm	Conforms	ICP-MS
16.	Mercury	≤0.1 ppm	Conforms	ICP-MS
17.	Cadmium	≤1 ppm	Conforms	ICP-MS
18.	TPC	$<10^3$ CFU/g	Conforms	USP <2021>
19.	TYMC	$<10^2$ CFU/g	Conforms	USP <2021>
20.	*Escherichia Coli*	Absent	Conforms	USP <2022>
21.	*Salmonella*	Absent	Conforms	USP <2022>
22.	*Staphylococcus aureus*	Absent	Conforms	USP <2022>

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

Stability: 24 months when properly stored

Issued by
Nature Science Technologies Ltd.

Signature:



Date: 20.11.2025

This Certificate of Analysis is based on the manufacturer's quality control documentation for the referenced batch.