NATURE SCIENCE TECHNOLOGIES

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CERTIFICATE OF ANALYSIS

Methylhesperidin

LOT EX0244

Catalog No.: NST-10-128

CAS No.: 11013-97-1

Molecular formula: $C_{29}H_{36}O_{15}$

MW: 624.59

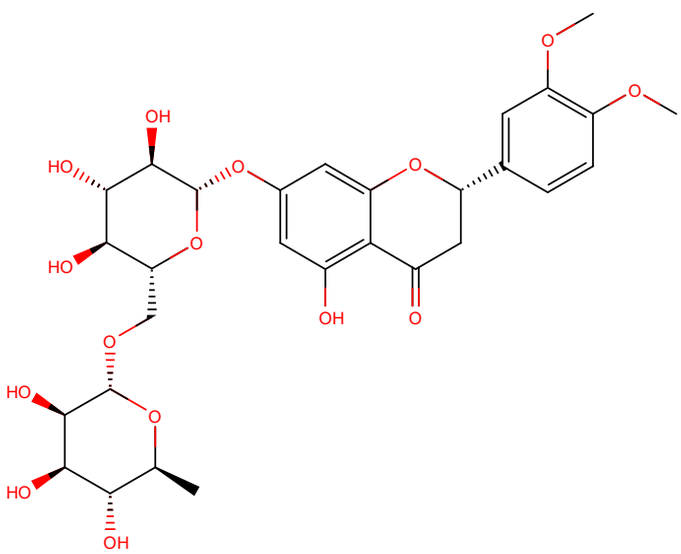
Botanical name: *Citrus limon.sp*

Part used: fruits

Manufacturing date: 26.08.2025

Analysis date: 07.09.2025

Shelf life: 24 months



No.	Parameter	Specification	Results	Method
1.	Appearance	Fine powder	Conforms	Visual
2.	Color	Yellow	Conforms	Visual
3.	Identification	Conforms	Conforms	TLC
4.	Assay	≥94.0 %	95.17 %	UV
5.	Odor	Characteristic	Conforms	Organoleptic
6.	Taste	Characteristic	Conforms	Organoleptic
7.	Mesh size/sieve	≥95 % pass 80 mesh	Conforms	80 mesh
8.	Residue on ignition	≤2.0 %	0.18 %	USP <281>
9.	Loss on drying	≤5.0 %	3.93 %	USP <731>
10.	Pesticide residues	USP <561>	Conforms	Third lab
11.	Solvent residues	USP <467>	Conforms	GC

12.	Heavy Metals	≤10 ppm	Conforms	ICP-MS
13.	Lead	≤2 ppm	Conforms	ICP-MS
14.	Arsenic	≤1 ppm	Conforms	ICP-MS
15.	Mercury	≤0.1 ppm	Conforms	ICP-MS
16.	Cadmium	≤1 ppm	Conforms	ICP-MS
17.	TPC	$<10^3$ CFU/g	Conforms	USP <2021>
18.	TYMC	$<10^2$ CFU/g	Conforms	USP <2021>
19.	*Escherichia Coli*	Absent	Conforms	USP <2022>
20.	*Salmonella*	Absent	Conforms	USP <2022>
21.	*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: 07.09.2025

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