NATURE SCIENCE TECHNOLOGIES

E-mail: inquiries@nstchemicals.com

nstchemicals.com

Phone: +371 24220280

CERTIFICATE OF ANALYSIS

Quercetin

LOT EX0143

Catalog No.: NST-10-115

CAS No.: 117-39-5

Molecular formula: $C_{15}H_{10}O_7$

Botanical name: *Sophora japonica L*

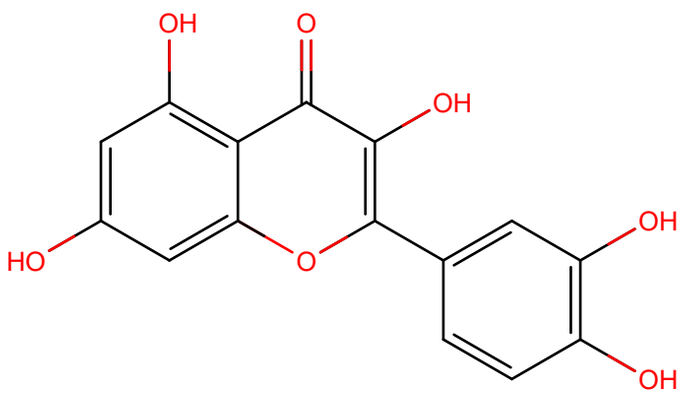
Part used: buds

MW: 302.23

Manufacturing date: 22.07.2025

Analysis date: 31.07.2025

Shelf life: 24 months



No.	Parameter	Specification	Results	Method
1.	Appearance	Fine powder	Conforms	Visual
2.	Color	Yellow	Conforms	Visual
3.	Odor	Characteristic	Conforms	Organoleptic
4.	Taste	Characteristic	Conforms	Organoleptic
5.	Mesh size/sieve	≥95 % pass 80 mesh	Conforms	80 mesh
6.	Bulk density	≤0.8 g/mL	Conforms	USP <616>
7.	Water	≤5.0 %	3.31 %	KF
8.	Residue on ignition	≤2.0 %	0.45 %	USP <281>
9.	Identification	Complies with standard	Conforms	TLC
10.	Assay	≥95.0 %	97.78 %	HPLC
11.	Pesticide residues	USP <561>	Conforms	Third lab
12.	Solvent residues	USP <467>	Conforms	GC

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: 31.07.2025

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