NATURE SCIENCE TECHNOLOGIES

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CERTIFICATE OF ANALYSIS

Baicalin

LOT EX0077

Catalog No.: NST-10-71

CAS No.: 21967-41-9

Molecular formula: $C_{21}H_{18}O_{11}$

MW: 446.36

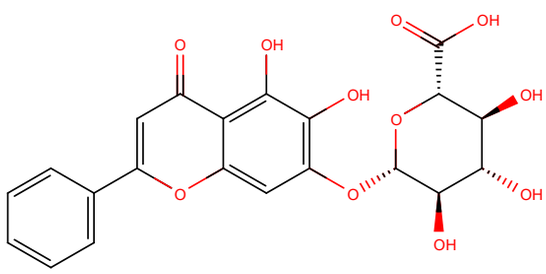
Source: *Scutellaria baicalensis Georgi.sp*

Part used: root

Manufacturing date: 27.08.2025

Analysis date: 08.09.2025

Shelf life: 24 months



No.	Parameter	Specification	Results	Method
1.	Appearance	Fine Powder	Conforms	Visual
2.	Color	Light 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.	Loss on drying	≤5.0 %	0.88 %	USP <731>
8.	Residue on ignition	≤0.5 %	0.28 %	USP <281>
9.	Identification	Complies with standard	Conforms	IR
10.	Purity (area normalization)	>95.0 %	95.36%	HPLC

11.	Assay (external standard method)	>92.0 %	92.23 %	HPLC
12.	Pesticide residues	USP <561>	Conforms	Third lab
13.	Solvent residues	USP <467>	Conforms	GC
14.	Heavy Metals	≤10 ppm	Conforms	ICP-MS
15.	Lead	≤2 ppm	Conforms	ICP-MS
16.	Arsenic	≤1 ppm	Conforms	ICP-MS
17.	Mercury	≤0.1 ppm	Conforms	ICP-MS
18.	Cadmium	≤1 ppm	Conforms	ICP-MS
19.	TPC	$<10^2$ CFU/g	Conforms	USP <2021>
20.	TYMC	<10 CFU/g	Conforms	USP <2021>
21.	*Escherichia Coli*	Absent	Conforms	USP <2022>
22.	*Salmonella*	Absent	Conforms	USP <2022>
23.	*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: 08.09.2025

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