NATURE SCIENCE TECHNOLOGIES

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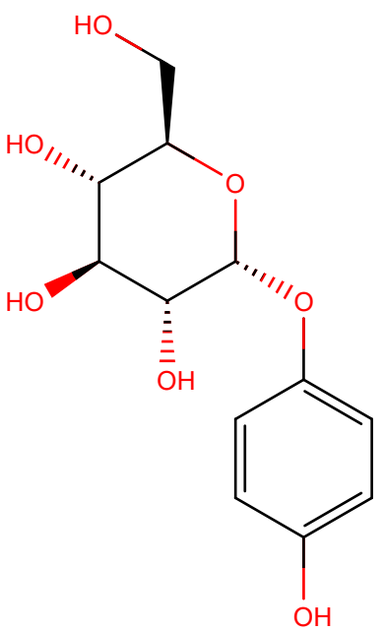
CERTIFICATE OF ANALYSIS

alpha-Arbutin



LOT EX0418

Catalog No.: NST-12-61

CAS No.: 84380-01-8

Molecular formula: $C_{12}H_{16}O_7$

MW: 272.25

Manufacturing date: 04.06.2026

Analysis date: 05.06.2026

Shelf life: 24 months

No.	Parameter	Specification	Results
1.	Appearance	Powder	Conforms
2.	Color	White	Conforms
3.	Identification	Conforms	Conforms
4.	Assay	≥98.0 %	99.08 %
5.	Residue on ignition	≤0.5 %	0.35 %
6.	Loss on drying	≤1.0 %	0.08 %
7.	pH	5.0-7.0	6.30
8.	Melting point	202 °C - 210 °C	203.5 °C – 204.2 °C
9.	Specific optical rotation	+175.0° to +185.0°	+180.76°
10.	Transmittance	≥95 %	96.8 %
11.	Hydroquinone	≤10 ppm	Conforms

12.	Heavy Metals	≤10 ppm	Conforms
13.	Lead	≤2 ppm	Conforms
14.	Arsenic	≤1 ppm	Conforms
15.	Mercury	≤0.1 ppm	Conforms
16.	Cadmium	≤1 ppm	Conforms
17.	TPC	$<10^3$ CFU/g	Conforms
18.	TYMC	$<10^2$ CFU/g	Conforms
19.	*Escherichia Coli*	Absent	Conforms
20.	*Salmonella*	Absent	Conforms
21.	*Staphylococcus aureus*	Absent	Conforms

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: 05.06.2026

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