

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	α-Arbutin		
<b>CAS NO.</b>	84380-01-8		
<b>MF</b>	C <sub>12</sub> H <sub>17</sub> O <sub>7</sub>	<b>MW</b>	272.25
<b>Batch Number</b>	20250310	<b>Manufacture Date</b>	20250310
<b>Report Date</b>	20250310	<b>Expiry Date</b>	20270309

Test Item	Specifications	Test Result
Appearance	White crystals or crystalline powder	White crystalline powder
Purity (by HPLC,% area)	≥99%	99.97%
Content	≥99.95%	99.96
Hydroquinone	Negative	Not detected
Identity (IR-spectrum)	The IR spectrum of test sample should corresponds to that of reference standard	Conforms
Specific Rotation	+174.0°~+186.0°	+178.51°
Solubility	Soluble in water, and slightly soluble in ethanol	Conforms
Solution charity and color	Clarify, colorless	Clarify, colorless
pH value	5.0~7.0	6.35
Loss on drying	≤0.50%	0.03%
Residue on ignition	≤0.50%	0.01%
Heavy metals	≤10.0ppm	<10.0ppm
As	≤0.5ppm	0.005ppm
Pb	≤0.5ppm	Not detected
Hg	≤0.1ppm	Not detected
Cd	≤0.5ppm	Not detected
Total microbial count	≤100cfu/g	<10cfu/g
Mould and yeast	≤50cfu/g	<10cfu/g
Coliforms	Negative	Not detected
Staphylococcus aureus	Negative	Not detected
Pseudomonas aeruginosa	Negative	Not detected

**Storage:** Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

**Shelf Life:** 24 months if store under the conditions above and stay in original packaging.

