

CERTIFICATE OF ANALYSIS

Product Name	α-Arbutin		
CAS NO.	84380-01-8		
MF	C ₁₂ H ₁₇ O ₇	MW	272.25
Batch Number	20240510	Manufacture Date	20240510
Report Date	20240510	Expiry Date	20260509

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.

