

CERTIFICATE OF ANALYSIS

Product Name: Alpha-Arbutin
CAS No.: 84380-01-8
Molecular Formula: (MF) C₁₂H₁₇O₇
Molecular Weight: (MW) 272.25
Lot Number: BPCAAP52026
Expiry Date: May 2029

Test Item	Specification	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)	IR spectrum of test sample should correspond 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 Clarity 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	≤10.0 ppm	<10.0 ppm
Arsenic (As)	≤0.5 ppm	0.005 ppm
Lead (Pb)	≤0.5 ppm	Not detected
Mercury (Hg)	≤0.1 ppm	Not detected
Cadmium (Cd)	≤0.5 ppm	Not detected
Total Microbial Count	≤100 CFU/g	<10 CFU/g
Mould and Yeast	≤50 CFU/g	<10 CFU/g
Coliforms	Negative	Not detected
<i>Staphylococcus aureus</i>	Negative	Not detected
<i>Pseudomonas aeruginosa</i>	Negative	Not detected

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