

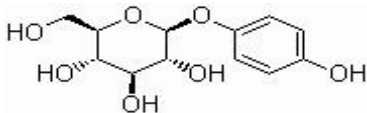


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CERTIFICATE OF ANALYSIS

Product name	Alpha-arbutin
CAS Number	84380-01-8
Molecule Structure	
Molecule Formula	C ₁₂ H ₁₆ O ₇
Batch number	20200325
Manufacture Date	2020-03-25
Testing Date	2020-03-25

Items	Standard	Result
Description	White needle crystals or crystalline	Pass
Assay	≥99.5%	99.6%
Loss on Drying	≤0.5%	0.07%
Residue Ignition	≤0.5%	0.05%
Specific rotation	+175.0°~+185.0°	+179.2°
Clarity of water solution	Transparent,colorless,none suspended	Pass
PH	5.0~7.0	5.98
Melting point	202.0℃~210.0℃	207.0℃
Hydroquinone	Negative	Pass
Lead	≤10mg/kg	<10mg/kg
Arsenic	≤2 mg/kg	<2 mg/kg
Mercury	≤1 mg/kg	<1 mg/kg
Methanol	≤2000mg/kg	<1000 mg/kg
Aerobic Bacterial Count	≤1000cfu/g	Pass
Molds and Yeast Count	≤100 cfu/g	Pass
Fecal Coliforms	Negative/g	Pass
Pseudomonas Aerginosa	Negative/g	Pass
Staphylococcus Aureus	Negative/g	Pass
Conclusion	Meet the requirements of the Manufacturer'Standard	

Quality control:Kun Wang Check:LiLi Liu Inspector:Zhichao Zhang