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## CERTIFICATE OF ANALYSIS

### Skin Care Raw Material Ascorbyl Glucoside CAS 129499-78-1

Product Name: Ascorbyl Glucoside

Appearance: White Powder

Purity:99%

Molecular Formula: C<sub>12</sub>H<sub>18</sub>O<sub>11</sub>

Flash Point: 271.8°C

Boiling Point: 717.5°C at 760 mmHg

Density: 1.83g/cm<sup>3</sup>

Shelf Life: 2 years

Storage: Keep away from sunlight, sealed in dry place.

Ascorbyl Glucoside is a special stabilized vitamin C derivative with excellent formula stability that inhibits discoloration and degradation in nature while preserving the full range of biological activity required to brighten the skin and resist ultraviolet rays Irradiation and anti-aging effect.

#### Specification

Items	Standards	Results
Appearance	White to cream powder	Complies
pH	2.0~2.5	2.4
Melting Point	158°C~163°C	161°C
Optical rotation	+186.0o ~ +188.0o	+186.8o
Loss on drying	≤1.0%	0.11%
Residue on ignition	≤0.2%	0.05%
Free ascorbic acid	≤0.1%	0%
Free glucose	≤0.1%	0%
Heavy metals(as Pb)	≤10ppm	Complies
Arsenic(AS <sub>2</sub> O <sub>3</sub> )	≤1ppm	Complies
Assay	≥98%	99.2%