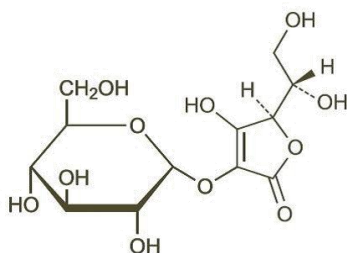


Technical Data Sheet

SinoWhite AA2G

Ascorbic Acid 2-Glucoside
CAS# 129499-78-1



Mol. wt. 338.265
Formula C₁₂H₁₈O₁₁

Feature

- Anti-wrinkle
- Anti-aging
- Promoting collagen synthesis

Description

SinoWhite AA2G is a Vitamin C derivative synthesized from vitamin C & starch by enzymes. For the multiple functions of vitamin C, it can be easily oxidized in aqueous solution, but SinoWhite AA2G is more stable by conjugation of ascorbic acid which is linked to glucose. It prevents darkening of skin by reducing the formation of melanin and protects skin from UV and other radiation damage.

Specifications

| Item | Specification |
|-------------------------------------|--|
| Appearance | White to creamy white crystalline powder |
| Assay (%) | Min. 98.0 |
| Free ascorbic acid (%) | Max. 0.1 |
| Free glucose (%) | Max. 0.1 |
| Melting point (°C) | 158.0 ~ 163.0 |
| Specific optical rotation (°) | $[\alpha]_D^{20} = +186.0 \sim +188.0$ |
| pH (1% aq. Soln.) | 2.0 ~ 2.5 |
| Loss on drying (% , 1g, 105°C, 2hr) | Max. 1.0 |
| Residue on ignition (%) | Max. 0.2 |
| Heavy metal (ppm) | Max. 10 |
| Arsenic (ppm) | Max. 2 |
| Total plate count (CFU/g) | Max. 100 |
| Molds and Yeast (CFU/g) | Max. 50 |
| <i>E. Coli</i> | Negative |
| <i>Staphylococcus Aureus</i> | Negative |
| <i>Salmonella</i> | Negative |
| <i>P. Aeruginosa</i> | Negative |

Applications

SinoWhite AA2G is used for skin care because of healthier and younger looking skin, such as creams. And also due to the protecting UV properties, it can be applied to sunscreen products. There are many masks products using vitamin C derivatives.

Storage

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when it is not used.

Shelf life

2 years