Selco®

Ascorbyl Glucoside

Description

Ascorbyl Glucoside is a stabilized Ascorbic Acid derivative with superior formulation stability; it is easily soluble in water.

It resists discoloration and degradation, while retaining all the biologic activity of L-ascorbic acid.

Ascorbyl Glucoside has the same lightening, sun protective and anti-aging properties as L-ascorbic acid. It penetrates into the skin where it is metabolized to free vitamin C.

Appearance

white to cream white powder

INCI

Ascorbyl Glucoside

Registration

| CAS-No | 129499-78-1 |
|-----------|-------------|
| EINECS-No | |

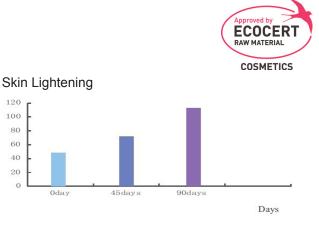
Raw material approved by ECOCERT GREENLIFE, conform to the ECOCERT Natural and Organic Cosmetics Standard.

Preservatives/Stabilizers

none

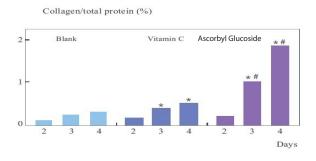
Efficacy

- excellent antioxidant
- boosts collagen production
- lightening & brightening
- reduces fine lines and wrinkles
- repairs and protects from sun damage



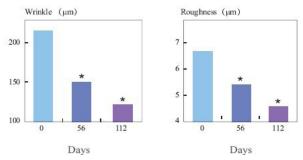
Sixteen female volunteers (37 to 55 years old) applied a face cream containing 2 % of Ascorbyl Glucoside, twice a day.

Promotion of Collagen Synthese



(*Significantly different from control at <0.05 and #significantly different from vitamin C at <0.05)

Wrinkle Reduction / Skin Roughness



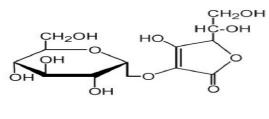
Sixteen female volunteers (37 to 55 years old) applied a face cream containing 2 % of Ascorbyl Glucoside, twice a day for a total of 112 days to the outer corners of their eyes and cheek area.

Our experience - Your success.

Selco®

Ascorbyl Glucoside

Chemical structure



Glucose Vitamin C

Molecular formel: C₁₂H₁₈O₁₁ Molecular Weight: 338.26472

Characteristics

| 2.0 - 2.5 |
|-------------------|
| 158°C - 163°C |
| +186.0° - +188.0° |
| >=98 % |
| |

6.5 to 6.8. The addition of metal chelating agent and/ or an antioxidant improves stability.

Toxicology

| Skin irritation: | not irritant |
|---------------------|-------------------------------------|
| Eye irritation: | not irritant |
| Skin sensitization: | not sensitizing |
| Acute Toxicity: | > 2,000 mg/kg |
| | (by oral administration) |
| | > 2,000 mg/kg |
| | (by dermal administration) |
| Subacute Toxicity: | NOAEL > 1,000 mg/kg |
| | (28-day oral administration to rat) |
| | |

Storage & Shelf life

Shelf life is 24 months. Store in sealed containers in a cool and dry place. Protect from light and moisture.

Application

Ascorbyl Glucoside can be incorporated in different kinds of cosmetic formulations.

Application concentration

| skin care creams | 0.1 - 2.0 % |
|--------------------------|-------------|
| anti wrinkle treatment | 1.0 - 2.0 % |
| skin lightening products | 1.0 - 2.0 % |

Incorporation

Ascorbyl Glucoside is highly stable at pH 5 - 7 even at high temperatures (up to 100 °C).

Please avoid leaving it under prolonged conditions of strong acidity or alkalinity (pH 2 - 4 and 9 - 12); do not work with Sodium Hydroxide.

For better stability and to avoid pH drift the use of 1 % citrate buffer is recommended.

To avoid discoloration protect the formulation from light, heat and high temperatures and adjust pH to

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Our experience - Your success.