Selco®

Ascorbyl Glucoside

Description

Naturally active.



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	
EINECS-No	

Raw material approved by ECOCERT GREENLIFE, conform to the COSMOS Standard.

Preservatives / Stabilizers

none

Efficacy

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

Approved by ECOCERT RAW MATERIAL COSMOS APPROVED



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.

Nature needs no cosmetics, but cosmetics need nature.

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Ascorbyl Glucoside

Chemical structure



Glucose Vitamin C

Molecular formel: C₁₂H₁₈O₁₁ Molecular Weight: 338.26472

Characteristics

0 - 2.5
163°C
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).

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

Nature needs no cosmetics, but cosmetics need nature. Selco Wirkstoffe Vertriebs GmbH

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