

AA2G™

AA2G is a trademark of Nagase Viita Co., Ltd., registered in Japan, the U.S. and other countries.

Brightening

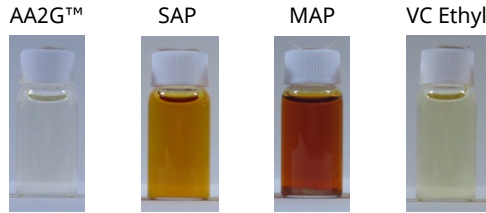
Stabilized Vitamin C Powered by Enzyme Technology, for Brightening / Even Skin Tone

What is AA2G™?

A highly stable Vitamin C derivative produced by combining Vitamin C with Glucose through enzyme technology.

Stability comparison test with other Vitamin C derivatives

Conditions: 2% solution adjusted to pH 6, stored at 40°C for 6 months



Information

INCI NAME

Ascorbyl Glucoside

SUGGESTED USAGE LEVEL

Skin care	0.5-5.0%
Anti-aging	0.5-5.0%
Brightening	1.0-2.0%

Net. 1kg or 10 kg

EXPIRATION

18 months (net 10 kg) or 12 months (net 1 kg) from the production date

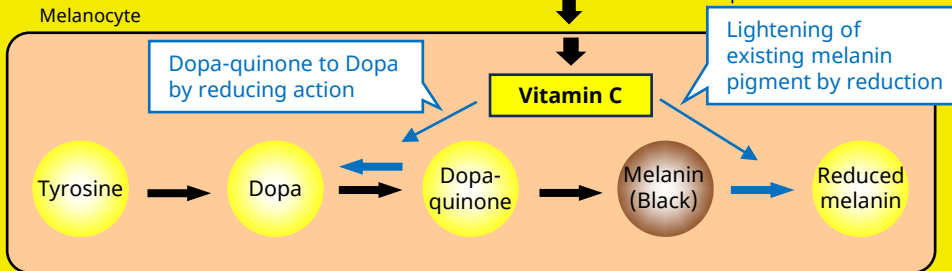
COUNTRY OF MANUFACTURE

Japan

Dual-function: Suppresses Melanin Production and Lightens Existing Melanin

L-Ascorbic Acid 2-Glucoside*

* Main component of AA2G™



CERTIFICATION



COSMOS APPROVED raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard

NATRUE Certified

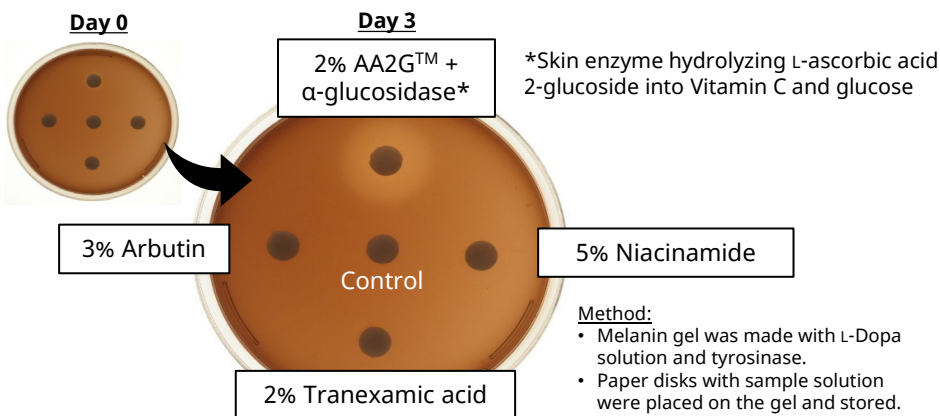
IECIC Listed



Certified as **Kosher and Halal**

1. AA2G™ released Vitamin C lightens melanin by reduction

Comparison with other brightening ingredients

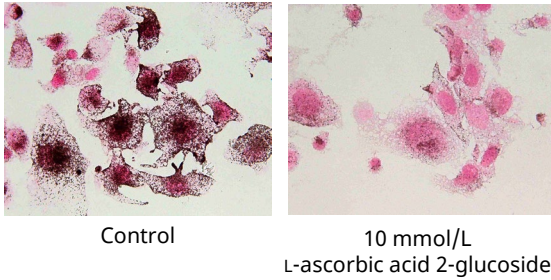


With the power of α-glucosidase, AA2G™ releases Vitamin C, which works for melanin lightening.

SUSTAINABILITY

- ✓ **Natural Origin Index = 1.0** (ISO 16128)
- ✓ **Readily Biodegradable** (evaluated by OECD Chemical Substance Test Guideline No. 301F)
- ✓ **Animal Origin Free Material**
- ✓ **Non-GMO**

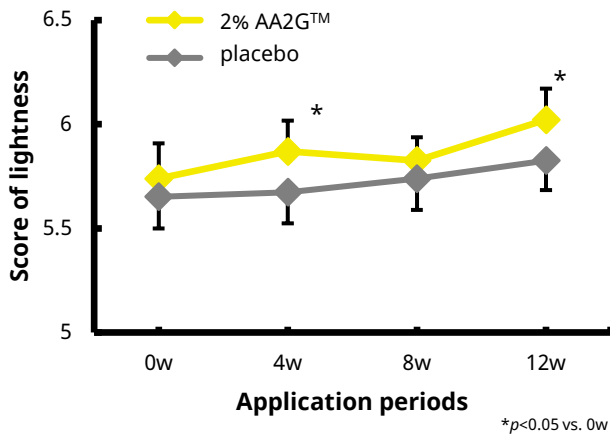
2. AA2G™ inhibited melanin production.



Method:

- B16 melanoma cells were incubated with or without 10 mM L-ascorbic acid 2-glucoside.
- Melanin production level was evaluated from the pictures of dyed samples.

3. 2% AA2G™ lotion lightened dark spot after 4 weeks of use.



Method:

- Subjects: 46 females with age spots
- Test sample: 2% AA2G™ lotion or placebo
- Application: Face, Twice a day for 12 weeks
- Evaluation: Score of lightness*
- * Determined by a dermatologist using skin tone color chart made by Japan Color Research Institute

2% AA2G™ lotion significantly lightened dark spots after 4 weeks of continuous use.

Picture of age spots (Subjects applied with 2% AA2G™ lotion)

