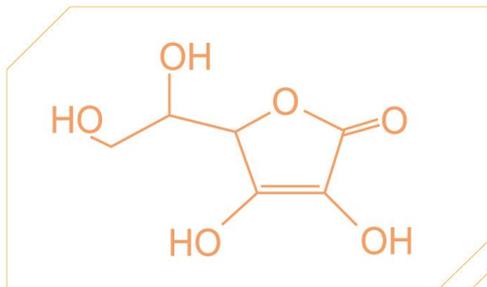


Whitening  
& Brightening



# BioGenic VitaC-300 | Stabilized Pure Vitamin for Anhydrous formulation

**BIOGENICS**



## Vitamin C

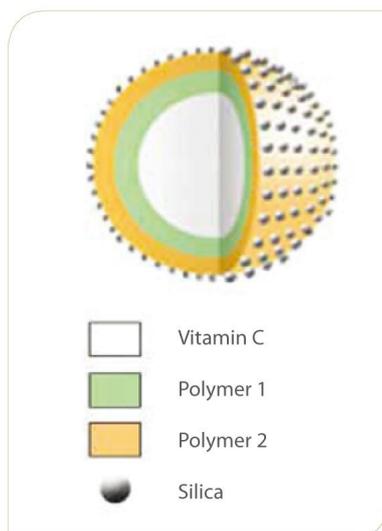
Vitamin C, L-ascorbic acid, has many useful properties such as collagen biosynthesis, photoprotection, melanin reduction. Vitamin C can keep the skin moisturizing, promote metabolism and it whiten and brighten the skin in cosmetic application.

## BioGenic VitaC-300

### High concentration of pure Vitamin C

About 80% of pure vitamin C is contained in BioGenic VitaC-300. It enables to make the formulation easy and have high efficacy of pure vitamin C.

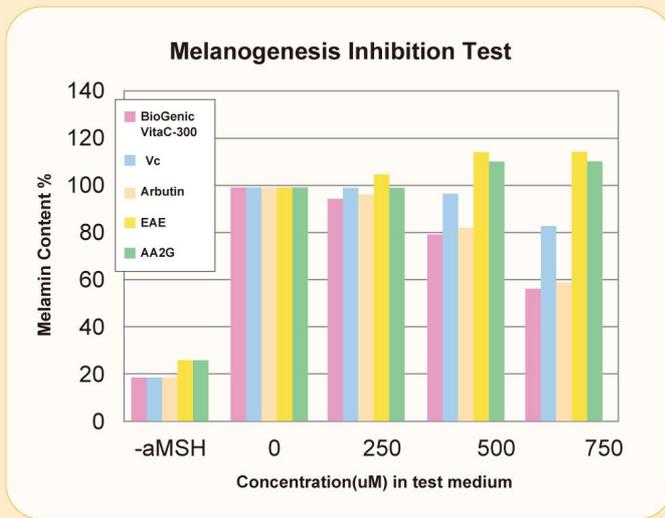
### Stabilization Technology by Multi-layer capsulation



BioGenic VitaC-300 is encapsulated with polymer and silica to stabilize Vitamin C. The capsule walls can be easily broken when it is applied to skin and release the active material.

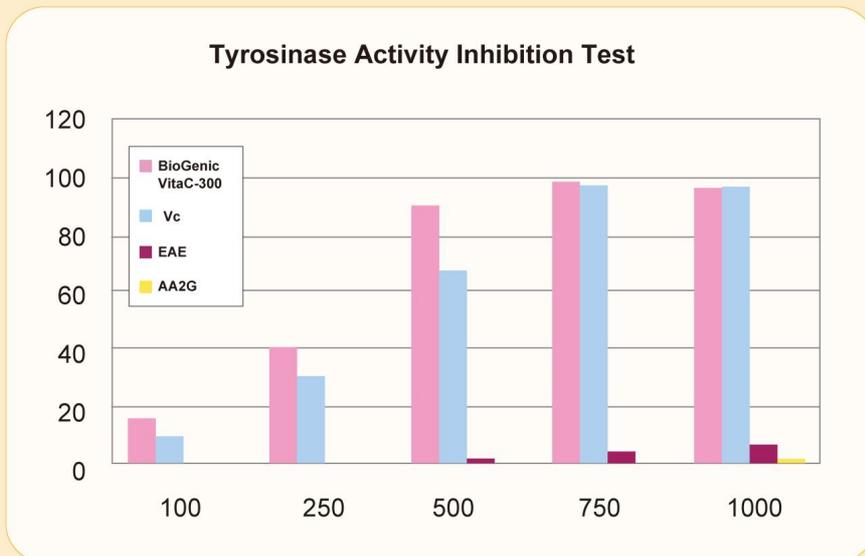
# BioGenic

# Skin whitening efficacy



Cultured skin cell was incubated for 24 hours before application of BioGenic VitaC-300, pure Vitamin C, Arbutin, EAE(Ethyl ascorbyl ether) and AA2G (Ascorbic acid 2-glucoside) introduced individually into 5 separate samples for 48 hours. The treated cells were harvested by Trypsin and the melanin contents were measured in each specimens. The result shows that BioGenic VitaC-301 inhibits Melanogenesis the most and almost same as pure vitamin C compared to other vitamin C derivatives.

(\*aMSH : alpha melanocyte stimulating hormone)

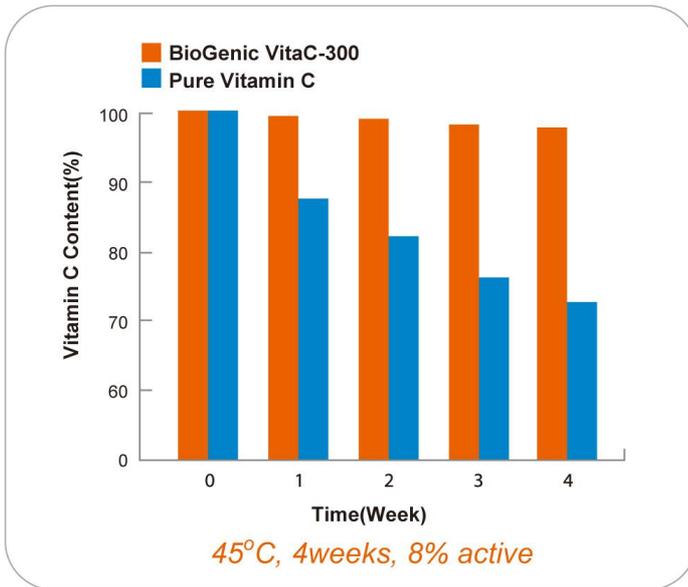


BioGenic VitaC-300, pure Vitamin C, EAE(Ethyl ascorbyl ether) and AA2G (Ascorbic acid 2-glucoside) have introduced individually into 4 separate tyrosinase buffers for 20 minutes and then the tyrosinase activity inhibitions were measured in each specimens. The result shows that the tyrosinase inhibition of BioGenic VitaC-300 is outstanding and almost same as pure vitamin C compared to other vitamin C derivatives.

# VitaC-300

# Thermal Stability

BioGenic VitaC-300 has excellent thermal stability in the cosmetic formulations.



The thermal stability of BioGenic VitaC-300 and pure vitamin C were tested for a period of 4 weeks. 10% of BioGenic VitaC-300 and 8% of pure vitamin C in silicon formulations were kept at 45°C for 4 weeks and measured weekly. The result shows that at the end of 4 weeks pure vitamin c detected in the formulation was about 70% compared to the content of BioGenic VitaC-300 detected in the formulation was 98%.



*45°C, 4weeks, 8% active*



# Application

Function : Skin whitening, Skin brightening, Age spot removal  
Type : Powder pact, Two way cake, Cream



## Products in Market



► 'Renewing Skin Filer'  
Amore pacific

# Technical data

## I. Product information

Appearance	Powder
Average particle size	~ 30 $\mu\text{m}$
Color	White
Ordor	Odorless
Active ingredient content	~80%
Solubility	Dispersible in emulsion
INCI name	Ascorbic Acid (and) Silica Silylate (and) Dimethicone (and) Dimethiconol
Storage condition	Room temperature

## II. Formulation instruction

pH in finished products	Not applicable
Recommended dosage	8~10% of BioGenic VitaC-300
Recommended formulation	Anhydrous formulation only

\* Guide formulation will be provided upon customers request



BioGenic VitaC-300



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