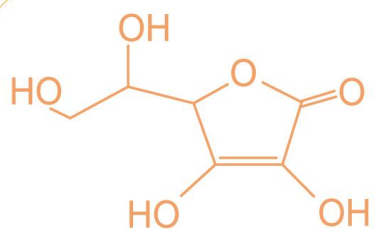


Whitening
& Brightening



BioGenic VitaC-300 | Stabilized Pure Vitamin for Anhydrous formulation

Pharmaceutical Grade
BIOGENICS
Pharmaceuticals

Vitamin C



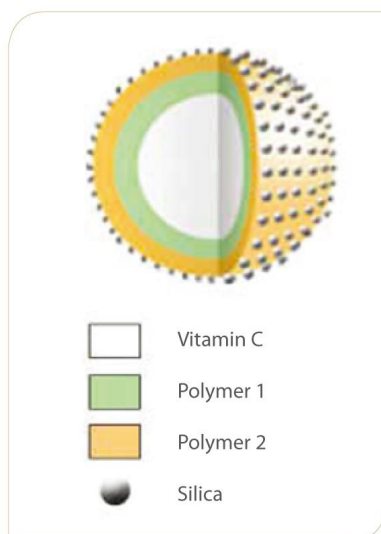
Vitamin C, L-ascorbic acid, has many useful properties such as collagen biosynthesis, photoprotection, melanin reduction. Vitamin C can keep the skin moisturizing, promote metabolism and it whiten and brighten the skin in cosmetic application.

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.

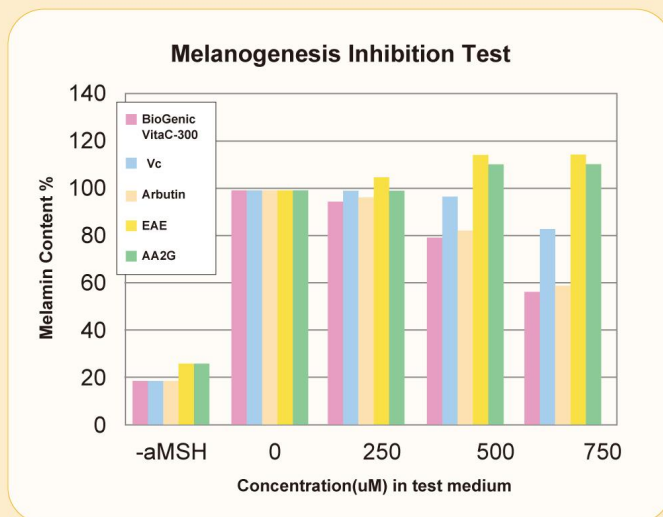
Stabilization Technology by Multi-layer capsulation



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.

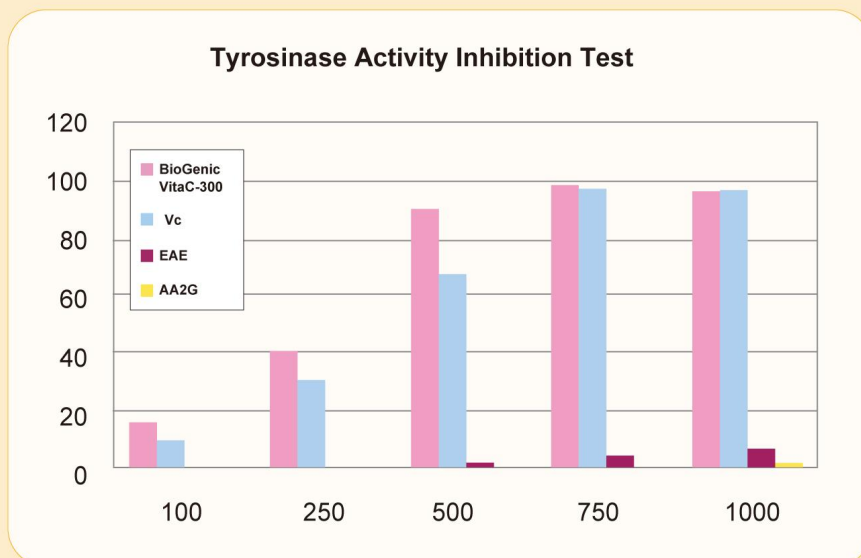
BioGenic

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)

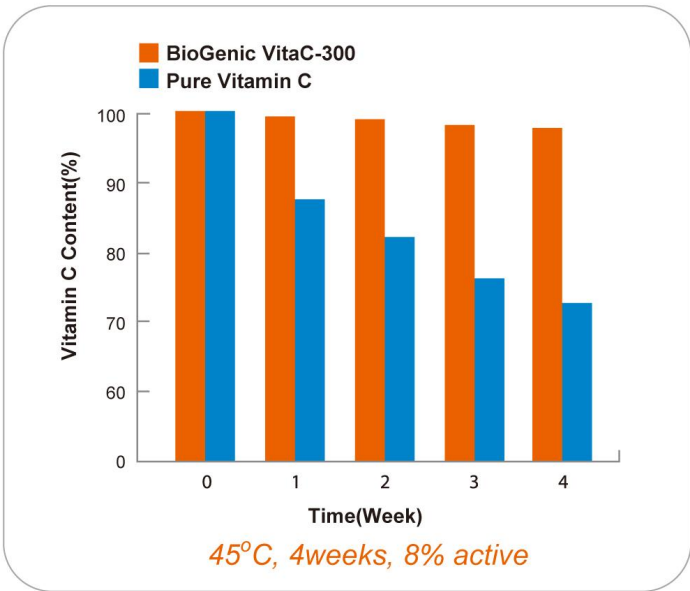


BioGenic VitaC-300, pure Vitamin C, EAE(Ethyl ascorbyl ether) and AA2G (Ascorbic acid 2-glucoside) have introduced individually into 4 separate tyrosinase buffers for 20 minutes and then the tyrosinase activity inhibitions were measured in each specimens. The result shows that the tyrosinase inhibition 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 45oC 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 μm |
| Color | White |
| Odor | 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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