

Vinoveil[®]-BS-100P、-BS-1D

1 What is Vinoveil[®]

Vinoveil[®] is a Ceramide like compound having phosphorylcholine-mimetic structure as hydrophilic group. Vinoveil[®] is developed by the technology of inducing phosphorylcholine group which have been cultivated in the biocompatible phospholipid polymer "Lipidure[®]".

Concept

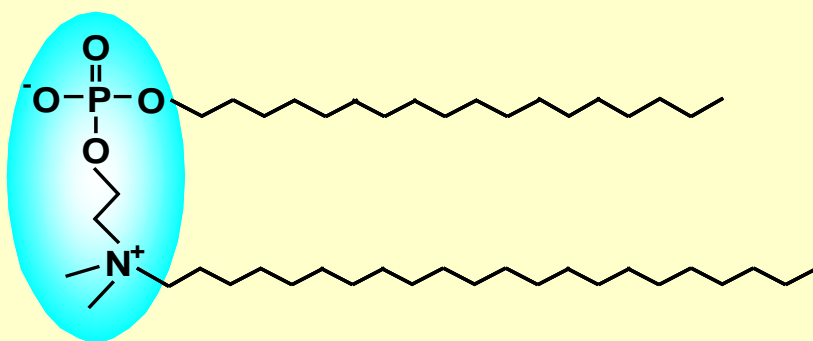
Phospholipid Ceramide

2 Characteristics

- ① Ceramide like compound having phosphorylcholine-mimetic structure as hydrophilic group.
- ② Vinoveil[®] forms stable multi-lamella vehicle in the water because having two hydrophobic group just as Ceramide.
- ③ Vinoveil[®] forms "Pseudo-ceramide-veil" on the skin and hair. "Pseudo-ceramide-veil" provides the improvement of smoothness, moisturizing efficiency, and acceleration of permeability.
- ④ High safety due to its similar structure of phosphorylcholine group.

3 Chemical of Vinoveil[®]-BS-100P

Vinoveil[®]-BS-100P



- Vinoveil[®]-BS-1D is 1% aqueous dispersion of Vinoveil[®]-BS-100P.

Product name	INCI	concentration
Vinoveil [®] -BS-100P※	BEHENDIMONIUM ETHYL STEARYL PHOSPHATE	100%
Vinoveil [®] -BS-1D	BEHENDIMONIUM ETHYL STEARYL PHOSPHATE, BEHENTRIMONIUM CHLORIDE, GLYCERIN,ALCOHOL, WATER	1%

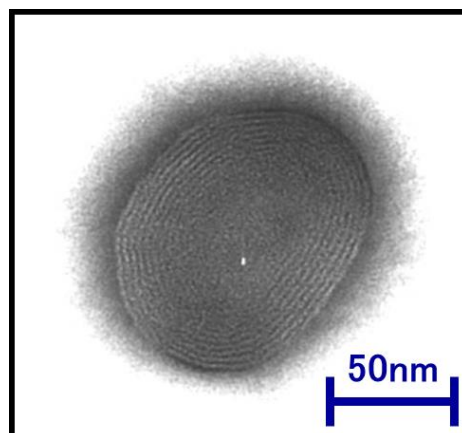
※under development

4 Vehicle forming ability

Sample preparation :

- (1) 100mg of BS-100P is added in 10g of distilled water and stirred.
- (2) The dispersion prepared in (1) was dispersed with homo-mixer at 70°C, 3000rpm for 10min.
- (3) The dispersion prepared in (2) was dyed with Uranil acetate.

Vehicle can be easily formed by itself.



5 Acceleration of permeability

Test method:

A quantity of Antipyrin which is permeated into skin has been measured using Franz type cell.

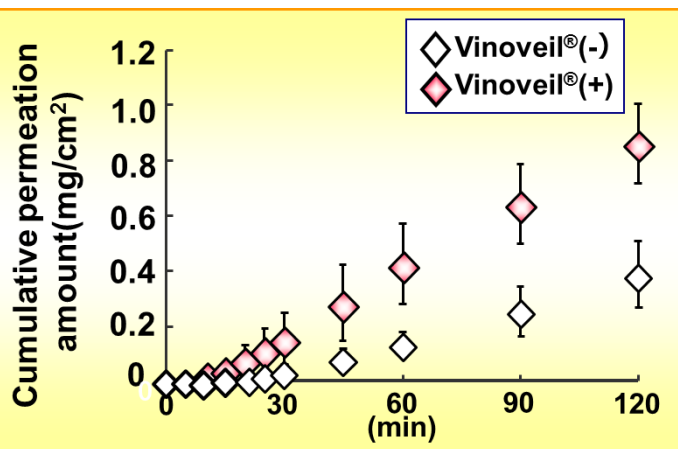
Skin model:

3D cultivated skin (Toyobo Co. Ltd., LSE-High)

Sample:

Vinoveil® (-) : 1 wt% Antipyrin solution

Vinoveil® (+) : 1 wt% Antipyrin solution
+ 1wt% Vinoveil®



Vinoveil® accelerates permeability of active ingredients into skin significantly.

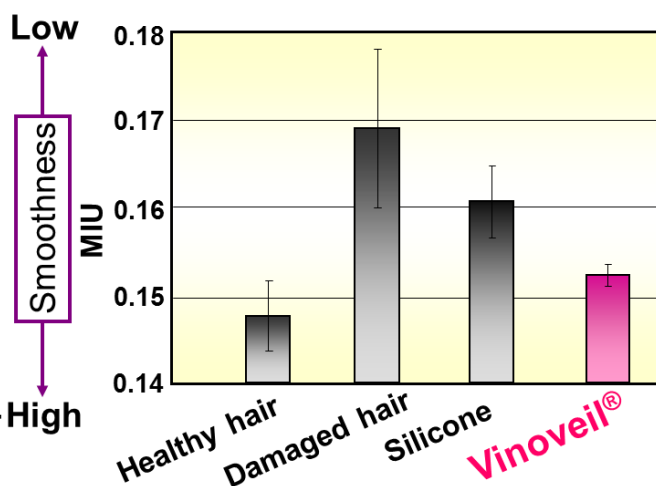
6 Smoothness

Test method:

- (1) Hair sample was soaked in each solution for 1min, rinsed off with water and dried.
- (2) Bundles of hair were fixed at the interval of 1mm on the slide glass.
- (3) Measurement of friction coefficient (MIU) (KES-SE friction tester (Katotec Co. Ltd.))

Treatment solution :

- 5% BS-1D dispersion as a product (0.05% active)
- 0.05% diluted silicone emulsion as an active matter



 **NOF CORPORATION**

Head Office

Yebisu Garden Place Tower, 20-3 Ebisu 4-chome, Shibuya-ku, Tokyo 150-6019

TEL: +81-3-5424-6704 FAX: +81-3-5424-6810 <http://www.nof.co.jp/>

DIAPON, NISSAN ANON are registered trademarks of NOF CORPORATION in Japan.
STAFOAM is trademark of NOF CORPORATION.