

# DS-HydroCeramide Series

- Natural water dispersible human-skin identical ceramide
- No recrystallization
- Higher solubility
- Repair damaged skin barrier
- Keep skin moisture balance
- Effective in restoring dry and aged skin
- Easy to use in skin care and hair care products

## Ingredient Identification

	INCI Name
DS-HydroCeramide50	Ceramide 3, Hydrogenated lecithin, Sucrose stearate, Polyglyceryl-10-stearate
DS-HydroCeramide5	Ceramide 3, Caprylic/Capric triglyceride, Cetareth-20, Polyglyceryl-10-stearate Glycerin, 1, 2-Hexanediol, Water

	DS-HydroCeramide50	DS-HydroCeramide5
Appearance	White to pale yellowish powder	White to pale yellowish gel
Contents of Ceramide	m.t. 47 %	m.t. 5 %
Origin of Ceramide	Yeast	Yeast
Recommended application part	Water Part	All type

## Material Description

Ceramide is widely known as a functional ingredient for cosmetics. Not only does it reinforce the natural lipid barrier of dry and aging skin but it also shows an outstanding ability to maintain the moisture balance of skin. Ceramide, however, exhibits very low solubility in water and oil, and even though it can be solubilized by a conventional emulsification method, some problems including coagulation, flocculation, coalescence, and creaming phenomena still occur due to its recrystallization behavior. Despite of its high physiological efficacies, these problems make it difficult to apply ceramide in cosmetic formulations. To solve such problems, DS-HydroCeramide series were developed, and it can be easily applied to any types of skin care and hair care products

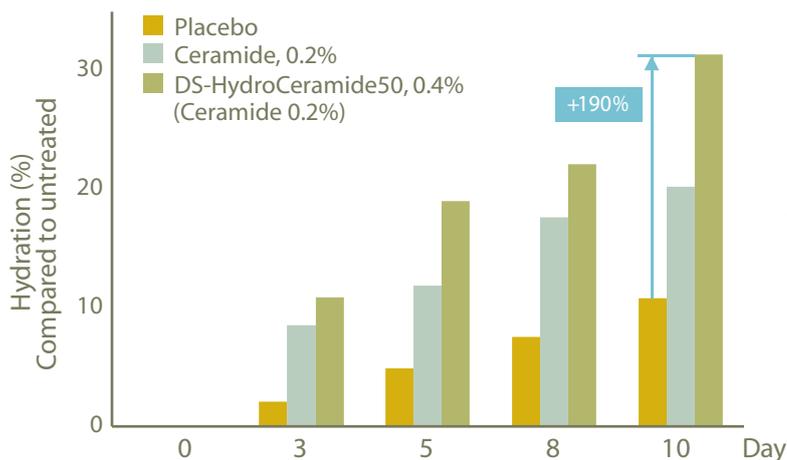
## Package

DS-HydroCeramide50: 500g or 1kg in Plastic Container

DS-HydroCeramide5 :5kg Plastic Container



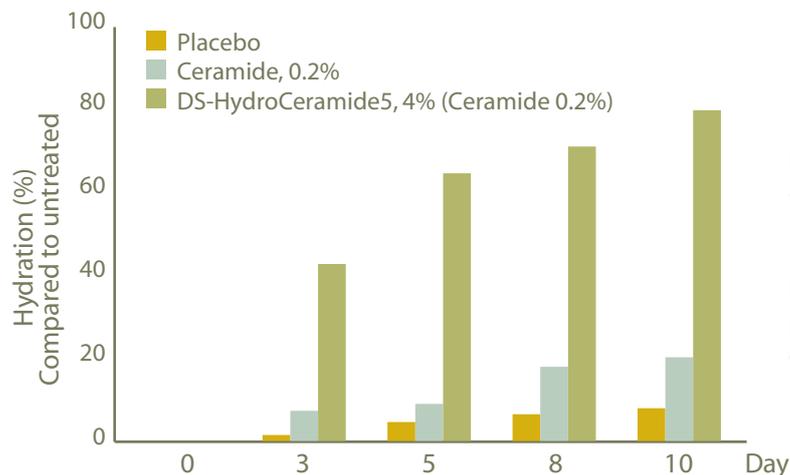
## Effects of DS-HydroCeramide50 on skin hydration in human subjects



Formulations were applied on the forearms, keeping one area untreated, of 17 Volunteers twice a day for 10 days.

The water retention capacity of skin treated with DS-HydroCeramide50 was improved by 190% and 56% when compared to those treated with Placebo and Ceramide(0.2%) at day 10, respectively.

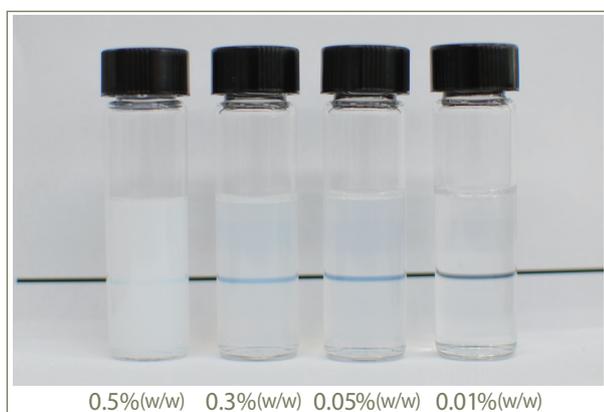
## Effects of DS-HydroCeramide5 on skin hydration in human subjects



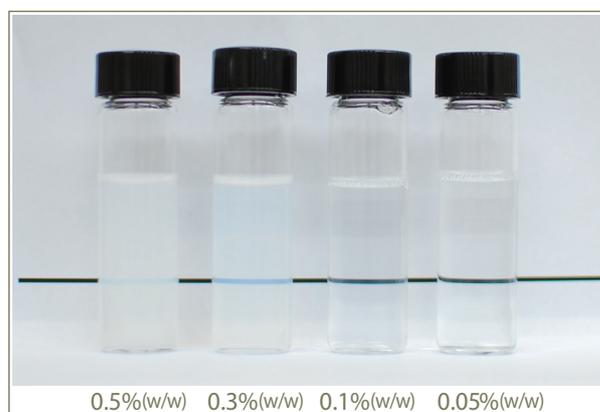
Formulations were applied on the forearms, keeping one area untreated, of 17 Volunteers twice a day for 10 days. The skin hydration was measured.

DS-HydroCeramide5 dramatically increased water retention capacity in skin compared to those by Ceramide.

## Dispersibility of DS-HydroCeramide50 in skin toner



## Dispersibility of DS-HydroCeramide5 in skin toner



All concentrations are based on ceramide3 content in the solution