

BEAULIGHT® SHAA



Original-
INCI

Sodium lauryl glycol carboxylate



Anionic surfactant for detergent with excellent foaming property



Forms fine and rich foam quickly



Oil control function



Excellent biodegradability



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◆ Feature

- Oil control function (Both cleansing and moisturizing functions)
- Excellent biodegradability
- Forms fine and rich foam quickly
- Best suitable as mild detergents for shampoos and body washes, etc...

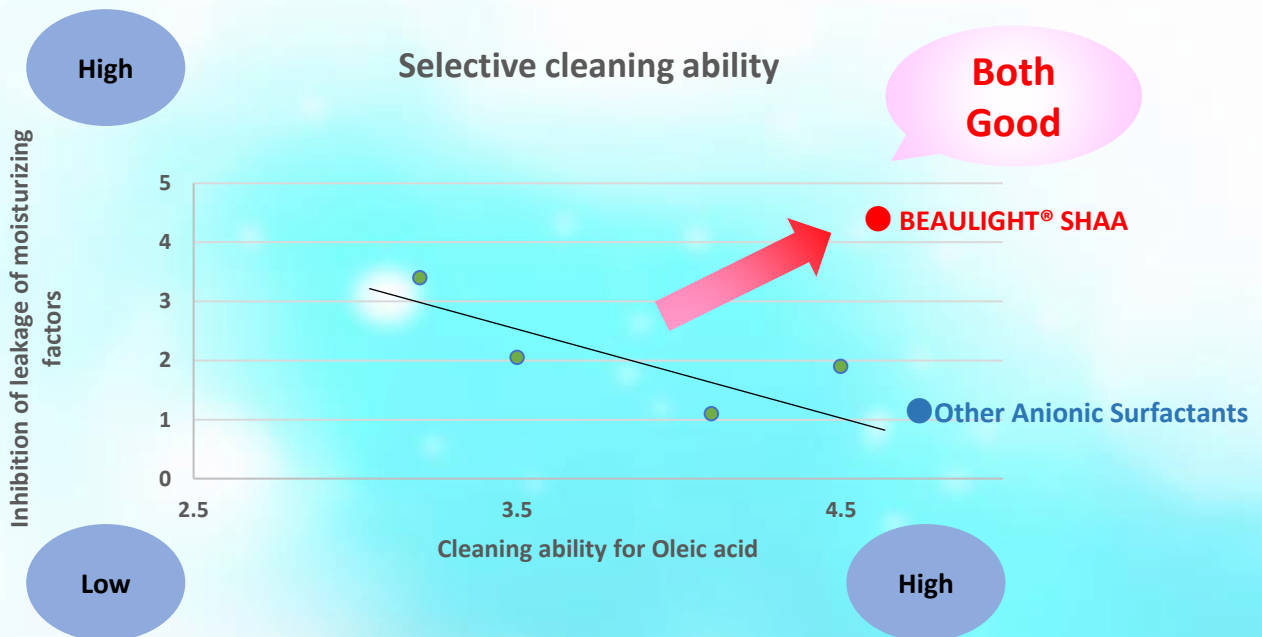


◆ Component

INCI Name	Evaporated residue	Appearance
Sodium lauryl glycol carboxylate	29%	Pale yellow liquid

◆ Application data 1

BEAULIGHT® SHAA can achieve both "moisturizing factor leaching inhibition" and "oleic acid detergency"



Method: Moisturizing factor leaching inhibition

Liposomes encapsulating a fluorescent substance (5(6)-Carboxyfluorescein, CF) were prepared and purified, and 0.5% aqueous activator solution was added to the liposome solution on a fluorescence measurement plate. Fluorescence intensity was then measured (Ex/Em: 494/520 nm). The higher the leakage rate of CF encapsulated in liposomes (higher fluorescence intensity), the more intercellular lipid components that act as a barrier function for the stratum corneum are leached, i.e., the more easily components necessary leach out.

Method: Oleic acid detergency

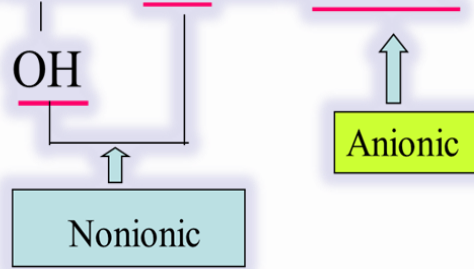
After 10 μ l of oleic acid was applied to artificial skin (Bioskin by Bulex), the skin was washed with detergent solution (active ingredients: sodium cocoyl glutamate 10%, BEAULIGHT® SHAA 10%, and remaining water). The skin was wiped with kitchen paper, extracted with acetone, and quantified by NMR along with the sample (sodium benzoate).

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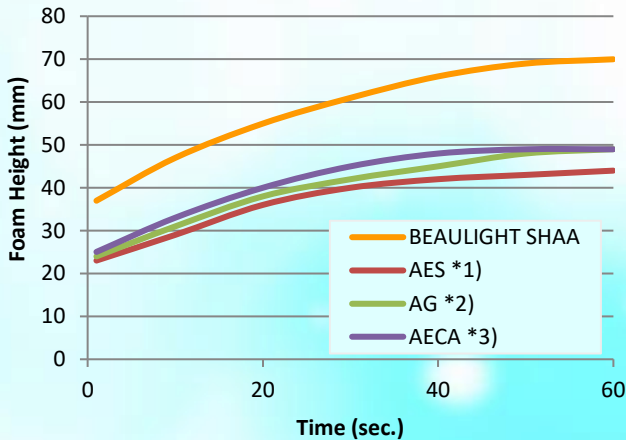
Original-
INCI



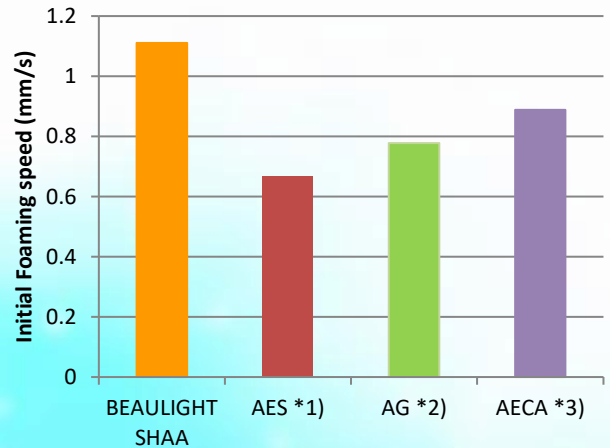
◆ Application data 2

Using "BEAULIGHT® SHAA" as a base, a washing solution with superior foam height and initial foaming speed compared to AES (sodium laureth sulfate), AG (sodium cocoyl glutamate), and AECA (sodium laureth-4-carboxylate) can be obtained.

■ Foaming height

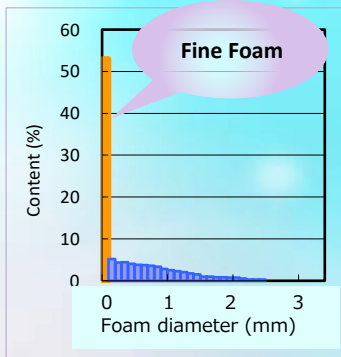
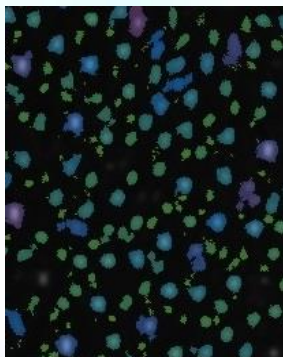


■ Foaming Speed

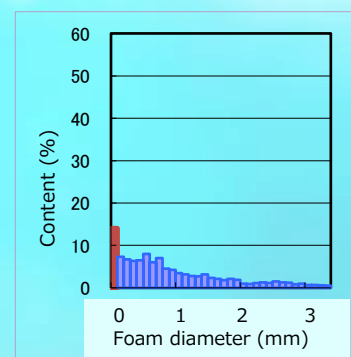
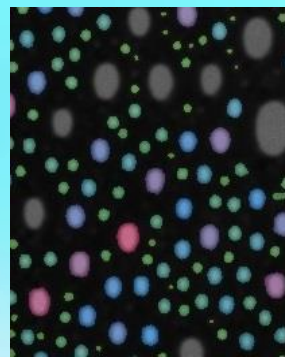


■ Pictures of foam and distribution of foam diameters five seconds after stop of stirring

BEAULIGHT® SHAA



AES*1)



● Methods

Dynamic Foam Analyzer (KRUSS GmbH), Surfactants Concentration; 0.5wt% (Active Ingredient)

● Materials

*1) AES ; Sodium Laureth Sulfate, Our Product, "SANDET EN"

*2) AG ; Sodium Cocoyl Glutamate, Other Company's Product

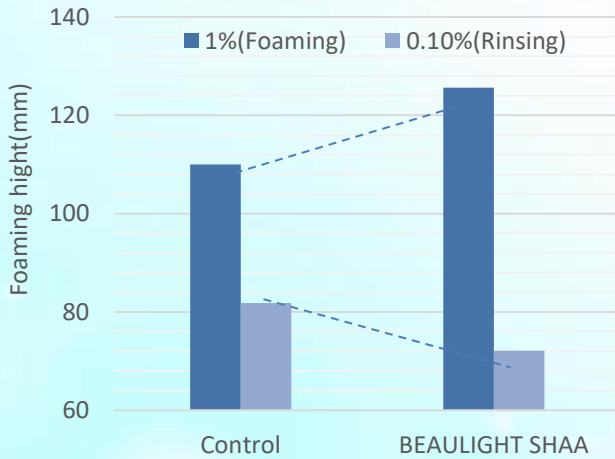
*3) AECA ; Sodium Laureth-4 Carboxylate, Our Product, "BEAULIGHT LCA-25F"

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◆ Application data 3

■ High foaming power in hard water, good foam breaking during rinsing



INCI name	Control	BEAULIGHT SHAA
Sodium cocoyl glutamate	20	20
Cocamidopropyl betaine	10	10
Sodium Lauryl Glycol Carboxylate	-	3
Water	appropriate	
total amount	100	100

- ✓ Foamed well when lathering (1%) and smoothly rinsed off foam when rinsing (0.1%).
- ✓ Does not inhibit foaming and maintains high foaming power even in hard water.

● Methods

Evaluation of foam height in hard water with a simple amino acid-based formula (Dynamic Foam Analyzer: 60 seconds).

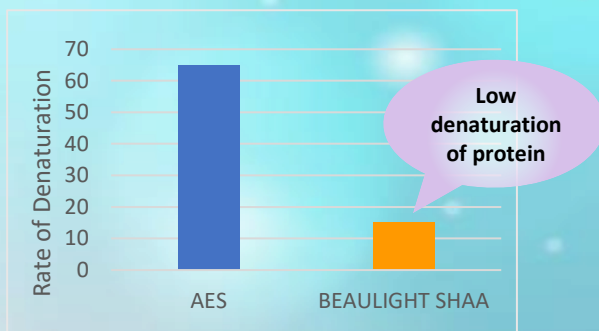
● Materials (Active ingredients)

1%: Foaming
0.1%: Rinsing

◆ Safety date & Biodegradability

Friendly to both the global environment and the skin, because of its low protein-denaturation rate and high biodegradability

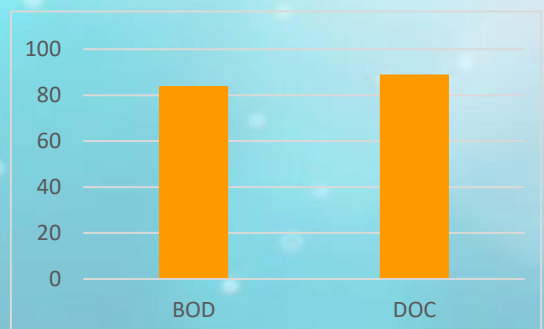
■ Protein-denaturation rate



● Measurement Condition

Described in *International Journal of Cosmetic Science* 1984,6,33-46
0.05% Albumin aq / Surfactant (1% Active) = 9 / 1 25°C, 24hours

■ Biodegradability



● Test Methods: MITI Testing

◆ History

BEAULIGHT SHAA was jointly developed with a top Japanese cosmetic manufacturer in the late 1980's. It can be used as a Japanese quasi-drug (grade higher than cosmetics), and its safety is guaranteed. It has a proven track record and combines functionality.

◆ IMPORTANT

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