Approved by ECOCERT RAW MATERIAL

COSMOS APPROVED

KANEKA Surfactin

カネカ・サーファクチン

A Biosurfactant Produced By Fermentation

Leading the future through an industry changing technology

kaneka

The Dreamology Company

—Make your dreams happen—

The Power of D-Phase

KANEKA Surfactin is able to create D-phase, emuision, a bi-continuous phase that incorporates both oil and water, using very low dosage. The D-phase KANEKA Surfactin creates could be used to formulate make up remover, an emulsion with very refined oil droplets and many other skincare products.

※D-phase refers to the phase that consists of surfactants, polyol.

Clear Oil Gel

Formulation Example

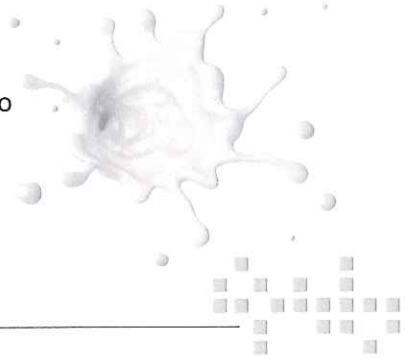
KANEKA Surfactin	0.5%~1%
Glycerin	20%
Oil	70%~80%
Water	Adjusted according to type of oil

D-Phase Emulsion

- Extremely stable emulsion with average oil droplet size of 1 micron
- Merely 0.1% of KANEKA Surfactin is used to emulsify 10% of oil
- The extremely low dosage of emulsifier, KANEKA Surfactin, leads to no tackiness on skin

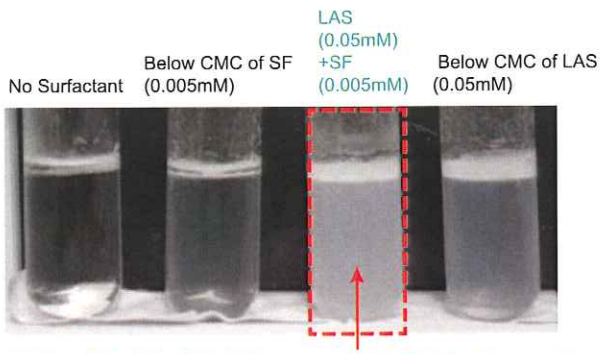
※skin touch may differ between individuals.

D-Phase emulsion created using KANEKA Surfactin contains large percentage of oil yet remains thin and smooth



Benefit As A Co-Surfactant

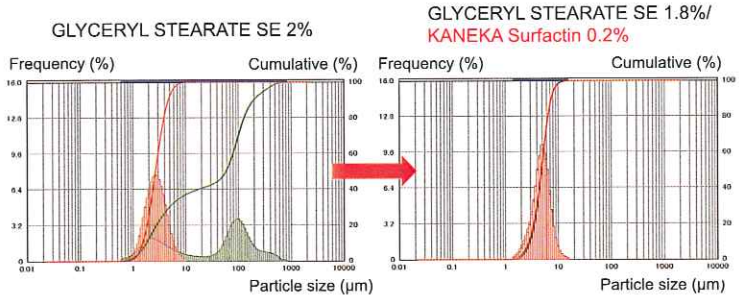
- Helps to decrease usage of ANIONIC surfactants
  Emulsion of soybean oil and water (25℃ 1 day)



Adding 10mol% of SF (with respect to LAS) helps to emulsify

※SF: KANEKA Surfactin

- Helps to stabilize emulsions when used with NONIONIC surfactants
  Emulsification result of 20% squalane



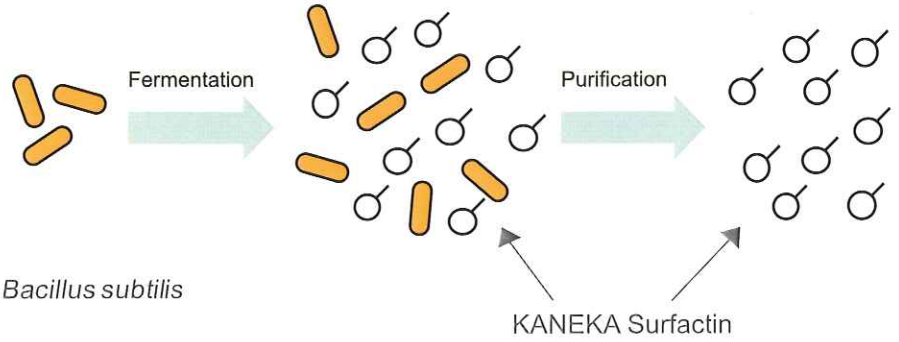
Red:Immediately after preparation Green:50℃ for 8 weeks

Product Characteristics

- Natural surfactant with high biodegradability and low skin irritation
- Highly efficient with critical micelle concentration of 0.0003%
- An uncommon chemical structure contributes to unique, distinguishing properties

Manufacturing Process

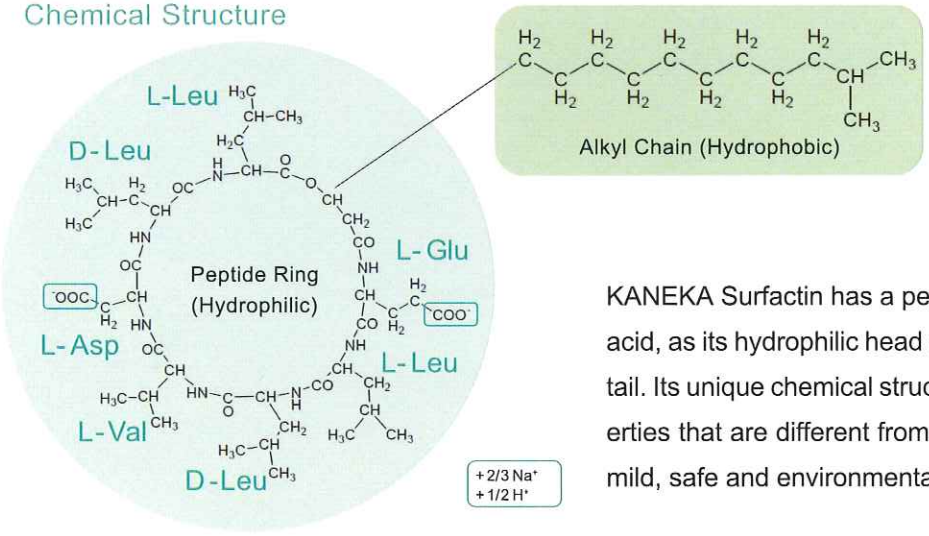
- Produced by natural fermentation



KANEKA Surfactin

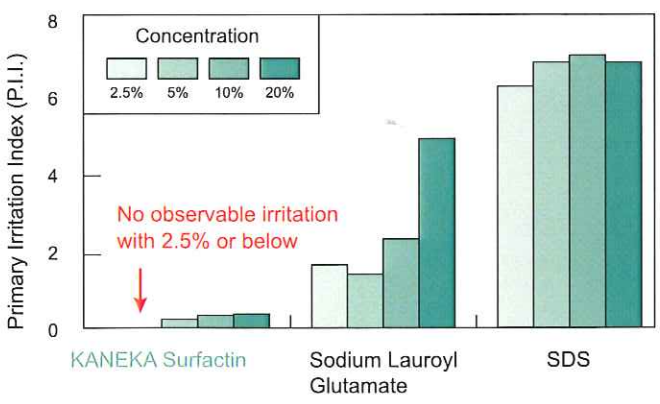
Sustainability

Chemical Structure

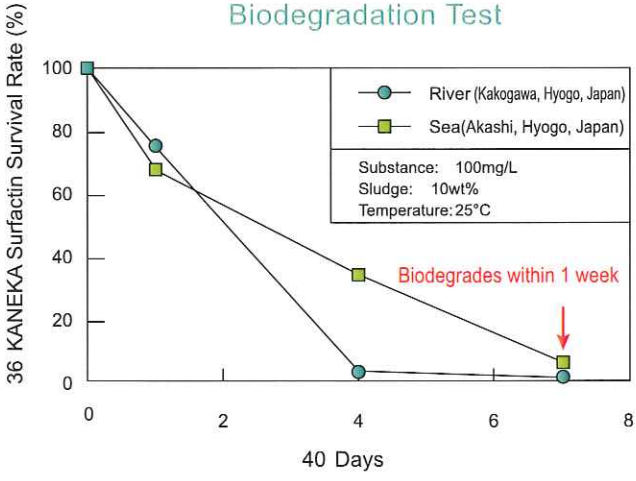


KANEKA Surfactin has a peptide ring, which consists of 7 amino acid, as its hydrophilic head and an alkyl chain as its hydrophobic tail. Its unique chemical structure brings about many unique properties that are different from typical surfactants. Moreover, it is a mild, safe and environmentally friendly product.

Primary Skin Irritation Test



Biodegradation Test



PRODUCT INFORMATION	
Product Name	KANEKA Surfactin
INCI name:	Sodium Surfactin
CAS No.:	302933-83-1
Purity:	＞90％
Appearance:	White to whitish powder
Package：	Carton 1kg/5kg
Origin：	Japan

REFERENCE INFORMATION	
Surface Active Property:	Critical Micelle Concentration: 0.0003 wt% (Wilhelmy plate method @25℃)
Heat Stability:	1%weight decrease temp.: 232℃ (powder in air)
Solubility:	Soluble in aqueous solvents. Precipitation at acidic pH or with alkaline earth metal ions (Mg^{2+}, Ca^{2+})
Recommended pH:	pH6.5～8.0 (Precipitation at acidic pH. Hydrolysis at pH＞10)
Regulation:	REACH (EU), TSCA (US), IECSC/IECIC (CN), NZIoC（NZ）
Certificate:	COSMOS、Ecocert
Others	Used in Cosmetics, Quasi-Drug

Contact Information:

kaneka
The Dreamology Company
—Make your dreams happen—

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