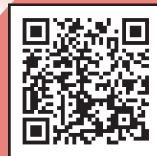


開発中

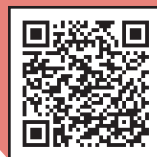
Under development

アルファピュール® BC

ALPHAPUR BC



製品情報



Cosmetic ingredient site

非加熱調製を可能とするコンディショナー用カチオン界面活性剤原料
～低エネルギー製造法・新剤型の提案～

Cationic Surfactant Raw material for Conditioner Enabling Non-heated Formulation
～Proposal for a Low-energy Manufacturing Process and Novel Formulations～

成分情報 Component

INCI Name	Behentrimonium Chloride, Cetearyl Alcohol
化粧品表示名称 Japanese label name of cosmetic	ベントリモニウムクロリド, セテアリルアルコール
中文名称 Chinese label name	山嵛基三甲基氯化铵, 鲸蜡硬脂醇
外観 Appearance	淡黄色粉体 Pale yellow powder



組成比, 粒径は
コントロール可能

Composition ratio and
particle size are
controllable

製品特長 Feature

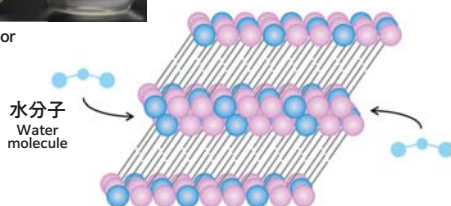
常温の水に投入するだけでカチオン界面活性剤と高級アルコールからなるαゲルを形成
ALPHAPUR BC forms α-gel composed of cationic surfactant and higher alcohol by adding it to water at room temperature.

水投入直後 Just after water addition



Images of swelling behavior

模式図
Schematic
diagram

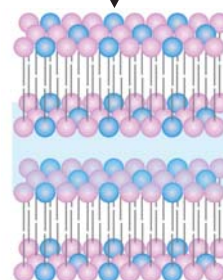


水膨潤後 After water swelling



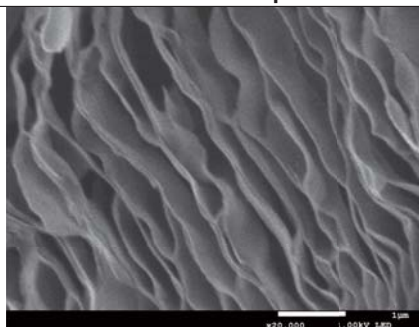
Images of swelling behavior

模式図
Schematic
diagram



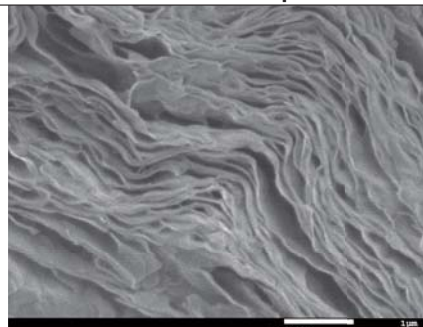
αゲルの構造は全て層状構造を形成
All structure of α-gel are formed as layered.

10 wt% aq.



Cryo-SEM images

30 wt% aq.



Cryo-SEM images

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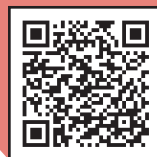
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Sanyo
Chemical

For detailed information, please contact below.
Sanyo Chemical Industries, Ltd.
URL <https://www.sanyo-chemical.co.jp>

Date issued: May 14, 2025





低エネルギー製造プロセスの提案 Proposal for low-energy manufacturing process

水に膨潤する性質を活かした攪拌混合のみによるコンディショナー調製
Conditioner formulation by using only stirring.

	化粧品表示名称	INCI Name	成分比 (%) Dosage (%)
固相 Solid phase	アルファピュール® BC	Behentrimonium Chloride, Cetearyl Alcohol	5.0
液相 Liquid phase	オイル	Oil	3.0
	水	Water	88.0
	DPG	Dipropylene Glycol	1.0
	ソルビトール	Sorbitol	3.0

<手順>

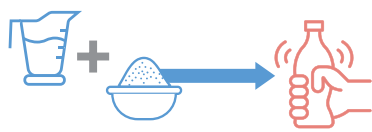
1. 固相、液相をそれぞれ秤量する
2. 液相をホモディスパーで攪拌させながら固相を直接投入する
3. 3000rpmで5分間攪拌させた後、脱泡する

<Procedure>

1. Weigh solid phase and liquid phase.
2. Add solid phase directly, while stirring liquid phase with a homodisper.
3. After stirring at 3000rpm for 5min, defoam the mixture.

新剤型の提案 Proposal for novel formulations

エンドユーザーでの
コンディショナー調製
Conditioner formulation by end-user



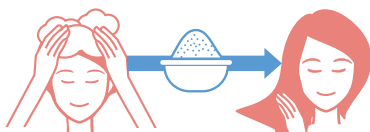
水、油、アルファピュール® BCを
容器に入れる
Put water, oil, and ALPHAPUR BC
into a container

手で振る
Shake by hand

いつでも、どこでも、誰でも
コンディショナーが作れる!

Anytime, anywhere and anyone
can make a conditioner!

無水コンディショナー製剤
Water-free conditioner

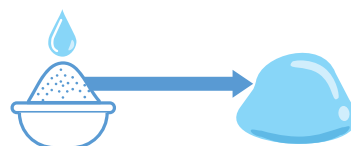


洗髪後の濡れた髪に直接塗布
Apply directly to wet hair after washing.

少量の水でも膨潤する性質から
コンディショナーの粉末化が可能

The conditioner can be converted
into a powder due to its ability to
swell even with a small amount of water.

濃厚αゲル製剤
Concentrated α-gel formulation



静置、もしくは練る
Add water and let it alone or knead.

アルファピュール® BCに
水を加えることで
従来にない高濃度αゲルを形成

By adding water to ALPHAPUR BC,
a higher concentrated α-gel than ever
before can be formed.

開発グレードと用途 Development grade and application

		粗粉碎品 Coarse powder type	粉碎品 Powder type	微粉碎品 Fine powder type
粒径(目安) Particle size (approximate)		15mm以下	1mm~500 μm	300 μm以下
用途 Application	低エネルギー 製造プロセス Low-energy manufacturing process	++ Excellent	++ Excellent	+ Good
	エンドユーザー調製 Formulation by end-user	- Poor	++ Excellent	++ Excellent
	無水 コンディショナー製剤 Water-free conditioner formulation	- Poor	- Poor	++ Excellent
	濃厚αゲル製剤 Concentrated α-gel formulation	+ Good	++ Excellent	++ Excellent

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