

発酵専門企業 Queegen Biotech

LactoREAL™



Lactobacillus

発酵ろ過物

LactoREAL™ 紹介

商品名	LactoREAL™
INCI Name	<i>Lactobacillus Ferment Lysate Filtrate</i>
化粧品表示名称	乳酸菌培養液
基本説明	<ul style="list-style-type: none">• LactoREAL™は、を発酵して分離・精製した発酵濾物です。• 皮膚免疫力の向上により皮膚炎症の緩和、抗アレルギーに役立ちます。また、メラニン生成を抑制し、美白効果があります。皮膚水分の改善、光老化予防効果、しわ改善効果、皮膚弾力性向上などもあります。• ビタミンC、Bを増加させ、皮膚環境改善、殺菌効果により保存剤として使用可能• Lactobacillus発酵ろ過物は、乳酸菌の一種であるラクトバチルス（Lactobacillus）を発酵後ろ過して得られた生成物です。• Lactobacillusという名称は、牛乳の中にある乳糖を分解する棒状の菌という意味で付けられています。• 主にキムチ、ミルク、チーズの発酵など、食品全体で使用される微生物であり、母乳中にも多量に存在するプロバイオティクスとして知られています。
主な効能	皮膚美白、抗炎症、皮膚免疫力の向上





LactoREAL™ 安全性データ



ヒト皮膚一次刺激試験結果

▷ Scale to score of skin reaction (ICDRG基準)

International Contact Dermatitis Research Group(ICDRG) 判定基準

判定点数	判定	
0	無刺激	
1	不確実な反応 : 薄暗い紅斑	
2	弱い陽性反応 : 紅斑、浸潤または丘疹	
3	強い陽性反応 : 紅斑、浸潤、丘疹、小水泡の形成	
4	非常に強い陽性反応 : 濃い紅斑、浸潤、不規則な水泡形成	

▷ 皮膚反応観察結果

ヒト貼布検査試験結果判定表

皮膚反応度	判定結果
0.00 ~ 0.75	無刺激
0.76 ~ 1.50	微刺激
1.51 ~ 2.50	軽刺激
2.51 ~ 4.00	中刺激
4.01 ~ 5.00	強刺激

皮膚反応度および皮膚刺激度判定結果

No.	製品名	皮膚反応度	皮膚刺激度
1	LactoREAL	0.00	無刺激
2	無塗布	0.00	無刺激

Case Report

아토피-피부염에 대한 Lactobacillus 혼합 배양액의 임상 사례

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The Case Study of Lactobacillus mixture culture fluid on Atopic dermatitis

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Objectives: Recently lactic acid formulation was known as the adjuvant therapy on atopic dermatitis(AD) symptoms because of little side effects. In this study, it was studied that Lactobacillus mixed culture appliment was effective on not on AD symptoms.

Methods: The case-photos 30-40 times of AD symptoms from case were observed with literatures. The case-photos were acquired with environmental AD dermatitis experience program which is conducted in SUNCHANG RESERCH INSTITUTE OF HEALTH AND LONGEVITY from 2014.01 to 2014.08. Experience applicants were limited the oral administration and chemical external administration.

Results: Lactobacillus mixed culture appliment was effective because of the mitigation or disappearance of AD primary symptoms like pruritus, erythema, edema, effusion, dry skin, scaly, scab etc. AD symptom degree was dependent on lactobacillus mixed culture appliment times, and classified as Reaction Period (RAP), Reduction Period (RDP), Efection Period (EP), Reproduction Period (RPP) on a single mixed culture appliment time.

And AD symptoms which were appeared in RPP were classified as Rebound Period (RBP), Efection Period (EP), Subclinical Period (SCP).

Conclusions: Lactobacillus mixed culture appliment is considered to be useful for AD symptoms and is estimated to be effective by different mechanism with oral administration or steroid ointment application. Lactobacillus mixed culture appliment is expected to induce a synergistic effects on AD symptom reliefs with the other oral administration.

Key Words : Atopic Dermatitis, Lactobacillus mixed culture, skin administration

Article

Applications of *Lactobacillus rhamnosus* Spent Culture Supernatant in Cosmetic Antioxidation, Whitening and Moisture Retention Applications

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Abstract: This study was aimed at investigating the antioxidant, whitening, and moisture-retention properties of *Lactobacillus rhamnosus* spent culture supernatant (Lr-SCS) in cosmetic applications. Results reveal that Lr-SCS effectively and gradually scavenges 1,1-diphenyl-2-picrylhydrazyl as well as 2,2-azino-bis-(3-ethylbenzothiazoline-6-sulfonic acid) radical cations, and increases reducing power in a dose-dependent manner. Additionally, Lr-SCS can also suppress tyrosinase activity *in vitro* and effectively promote moisture retention. Heat treatment at 100 °C for 30 min does not influence the functions of Lr-SCS. We conclude that Lr-SCS can be used effectively in skin care cosmetics.

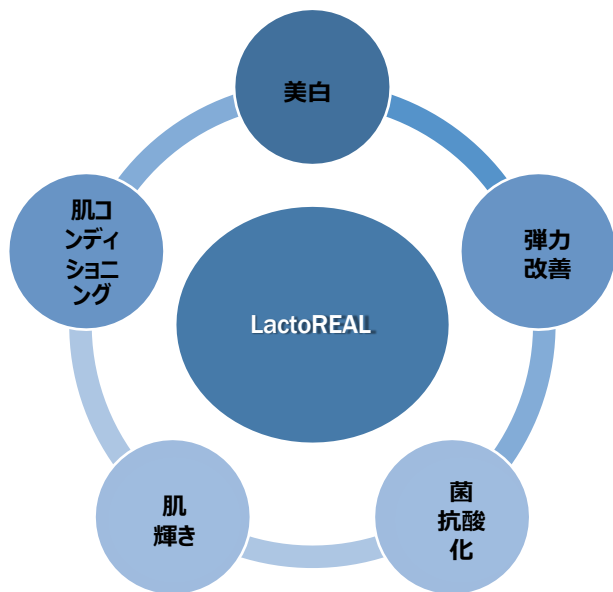
Keywords: *Lactobacillus rhamnosus*; antioxidation; whitening; moisture retention; tyrosinase

LactoREAL™ 基本情報



LactoREAL™ の全成分

INCI name	CAS No.	Content(%)
Lactobacillus Ferment Lysate Filtrate	-	78.00
Butylene Glycol	107-88-0	20.00
1,2 Hexanediol	6920-22-5	2.00
Total		100.00



LactoREAL™ の使用方法

商品名	LactoREAL™
INCI	Lactobacillus Ferment Lysate Filtrate, Butylene Glycol, 1,2-Hexanediol
推奨使用量	製剤により0.5~10% (100%使用可能)
製造ガイド	乳化製品：水相で使用可能ですが、長時間の高温露出は禁止してください。一般的に乳化後50℃に後添した後、混合してご使用ください。 可溶化製品：水相にご使用ください。 洗浄製品：洗浄剤投入後、後添した後に混合してご使用ください。 です。
保管と保証期限	容器を密閉し、乾燥して風通しの良い涼しい所に保管してください。 保証期間は製造日から元封1年
規格・性状	無色または淡黄色の透明な液体
匂い	僅かな特異臭
溶解度	水溶性
重金属	Heavy metals ≤20ppm, Arsenic ≤2ppm
微生物	- Total Bacterial Count ≤100 cfu/g - Yeast & Mold ≤10cfu/g