

Product Name: Bifilyzum™

INCI Name: Bifida Ferment Lysate.

CAS No.: 96507-89-0

INTRODUCTION

Skin exposure to pollutants, UV and other harsh environmental conditions, can lead to a wide variety of skin reactions, such as altered pigmentation, acne, irritation, contact dermatitis, and sensitization. Keratinocytes which is the major cell type in the epidermis and plays a key role in skin inflammatory and immunological reactions, in response to physical or chemical stresses as it releases inflammatory cytokines.

The expression of inflammatory cytokines gets up-regulated during inflammatory reaction. Bifida lysate shows very positive effects making the skin calm, recovering skin's vitality, has anti-inflammatory action and acts as a mild anti-aging ingredient. Bifida lysate has a regulating function on the immune system in formulation, improving the health and appearance of the skin, as well as increasing its regenerative capacity.

Anti-aging and repairing

Boosts cell proliferation for radiant and youthful skin

Calming UV-induced immune suppression aids skin recovery.



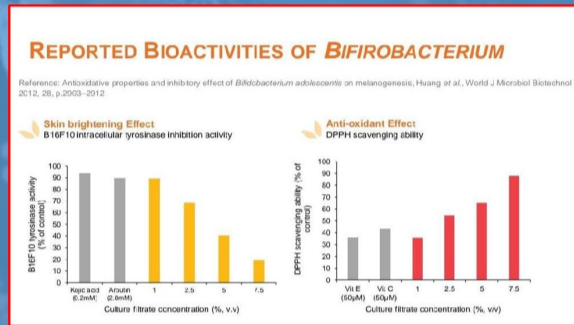
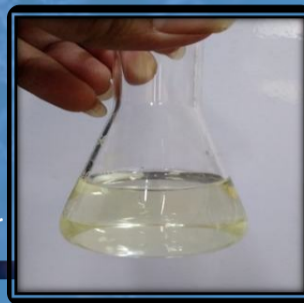
Bifilyzum™-α (With Plasma / Cell Membrane)

Skin Brightening and even skin toning

Anti-inflammation and soothing

Selenium in Bifilyzum™ protects skin.

Bifilyzum™ (After Micro-filtration, Without Plasma / Cell Membrane)



Reference Article: DOI:10.1111/j.1600-0625.2009.00932.x4o / Blackwell Publishing

Bifidobacterium longum lysate, a new ingredient for reactive skin / Audrey Guéniche, Philippe Bastien et al / L'Oréal Research in Clichy Cedex, France.

In vitro Tests

Bifida Ferment Lysate improves skin inflammation parameters like vasodilation, edema, mast cell degranulation, TNF-α release, and CGRP release caused by neuronal stimulation.

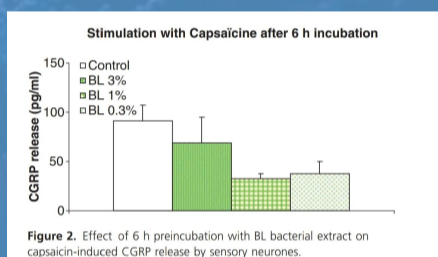


Figure 2. Effect of 6 h preincubation with BL bacterial extract on capsaicin-induced CGRP release by sensory neurones.

Clinical Trials

Topical creams containing Bifida Ferment Lysate significantly reduce skin dryness and sensitivity, improving skin barrier function.

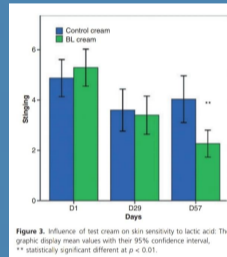


Figure 3. Influence of test cream on skin sensitivity to lactic acid. The graphs display mean values with their 95% confidence interval. ** statistically significant different at p < 0.01.

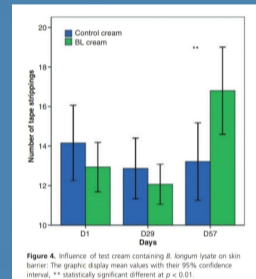


Figure 4. Influence of test cream containing *B. longum* lysate on skin barrier. The graphs display mean values with their 95% confidence interval. ** statistically significant different at p < 0.01.

Note:

Bifilyzum™ is produced from In-House Lab grown probiotic culture where based on NABL Accredited external lab results the same has Bifidobacterium Cell count of: 7-8*10⁶



PRODUCT SPECIFICATIONS

APPEARANCE

Yellowish-White, turbid liquid

SOLUBILITY

Water Soluble

ODOUR

Characteristic

pH VALUE

4-6

SOLID CONTENT

2.5 – 3.5 %

LACTIC ACID

0.7-0.9 %

VITAMIN-C CONTENT

0.8-1.0 mg/100g

SELENIUM CONTENT

7-8 mcg/100g

TOTAL AEROBIC MICROBIAL COUNT (TAMC)

< 1 cfu/ml

TOTAL COMBINED YEAST & MOULD COUNT (TYMC)

< 1 cfu/ml

Recommended Dosage:
1%-100%.
Add below 50°C.

Storage:
Store in a cool, dry place (15-20°C). Avoid direct sunlight. After opening, use fully or cap tightly and store at 15-20°C.

Important Note:
When standing for a long time, Bifilyzum™ may appear precipitate or stratification and it will resume upon stirring or shaking evenly.

Shelf Life:
24 months from manufacturing date.

Package:
5kg Recyclable Aluminum Cans.