

Fermented rose petal extract material

LACTIBIO® ROSE

LACTIBIO® ROSE is the rose petal extract fermented with lactic acid bacteria derived from Danish cheese. It is our original patent ingredients.

LACTIBIO® ROSE has beauty effects such as whitening effect, prevention of skin aging by UV, antioxidant effect.

Characteristics of LACTIBIO® ROSE ~Protecting your skin from ultraviolet rays and restoring it to a youthful skin with transparency~

- •Fermented Centifolia rose petal extract with lactic acid bacteria.
- Patented ingredient that inhibits tyrosinase, suppresses the formation of melanin, and expects whitening effect. (Patent No. 5274525)
- •Suppressing the production of carbonyl protein, which is the cause of skin darkness.
- •Suppressing oxidation and damage of skin cells due to active oxygen. (DPPH, OH radical scavenging ability)
- Suppressing skin cell damage and collagen destruction caused by UV.
- •Inhibiting collagenase, hyaluronidase, elastase.



Product name		LACTIBIO® ROSE	
Cosmetics	Labeling name	INCI	Composition (%)
	Lactobacillus / Rosa Centifolia Flower Extract Ferment Filtrate	Lactobacillus / Rosa Centifolia Flower Extract Ferment Filtrate	94.4
	Propanediol	Propanediol	5
	Phenoxyethano	Phenoxyethanol	0.6
Standard dose		20kg/BIB	
Storage		Store in a dark place at room temperature	

ITEM	STANDARD	METHOD
Appearance	Brown to dark brown liquid with characteristic odor	Sensory test
рН	4.0~5.5	JSQI general test method
Residue on drying	≥0.8%	Atmospheric heating drying method
Specific gravity	1.000~1.030	Vibration-type density meter
Heavy metals (as Pb)	≤ 20 ppm	JSQI general test method
Arsenic (as As2O3)	≤ 2.0 ppm	ICP emission spectrometry
Aerobic plate count	≤ 100 cfu/mL	SCDLP agar culture method
Coliform organisms	Negative	AOAC (Petrifilm) method
Viable molds and yeasts count	≤ 100 cfu/mL	AOAC (Petrifilm) method







[Human Test] Moisturizing effect of LACTIBIO ROSE formulated lotion

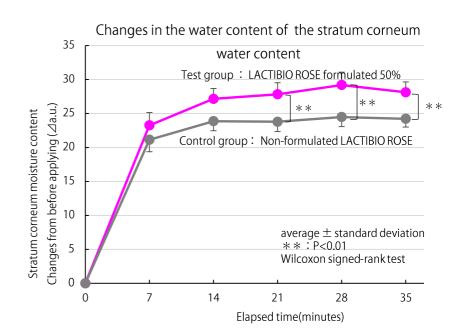
Adult male and female 13 (6 female, 7 male) were selected and tested with the inside of their forearm as the examination site.

The tested parts of both arms were cleaned with warm water, and after conditioning for 15 minutes, 250 μ L of two kinds of lotion were applied to the test site of both arms. The stratum corneum water content was measured using Corneometer CM 825 before applying each lotion and every 7 minutes after application.

 Test group: LACTIBIO ROSE formulated 50%
Control group: Non-formulated LACTIBIO ROSE (Lactobacillus/Rosa Centifolia Flower Extract Ferment Filtrate is replaced by water)

Compared to the control group, the stratum corneum water content was high in the test group, its high state was maintained, and a significant difference was confirmed as time passed.

From this result, it is sure that Lactobacillus / Rosa Centifolia Flower Extract Ferment Filtrate is effective for maintaining the moisture retention of the skin.



SAFETY TEST

ITEM	RESULT
Ames TEST	Negative
Skin irritation test (OECD TG 439)	Non-irritant
Eye irritation test (OECD TG 492)	Non-irritant
Phototoxicity test (OECD TG 432)	Negative
Human patch test (24 hours occlusion 20 human)	Safety
Repeat insult patch test (50 human)	Non-irritant and non-sensitizer