

BIOFERM OIL®

- RADIANT's unique technology -

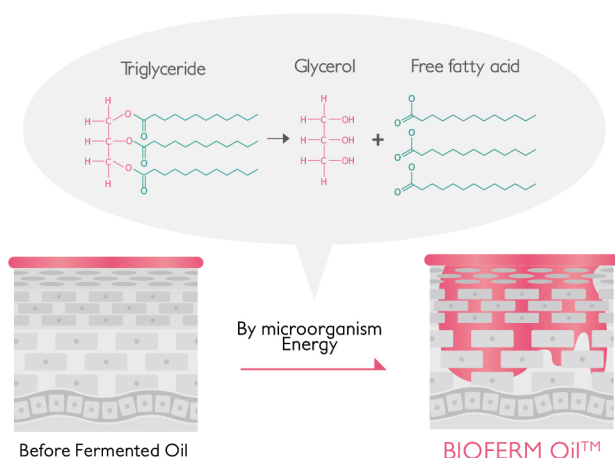
What is BIOFERM OIL® ?

BIOFERM OIL® is developed using natural oil and RADIANT's fermentation technology. It makes oil having excellent texture & active components and be the most effective ingredient for skin.

BIOFERM OIL® Technology

Advanced technologies, such as optimization of microbial growth and high elevated Lipase activity, are applied to plant oil fermentation. BIOFERM OIL® effective for skin is purified through the process of separation between oil layer and microorganism medium

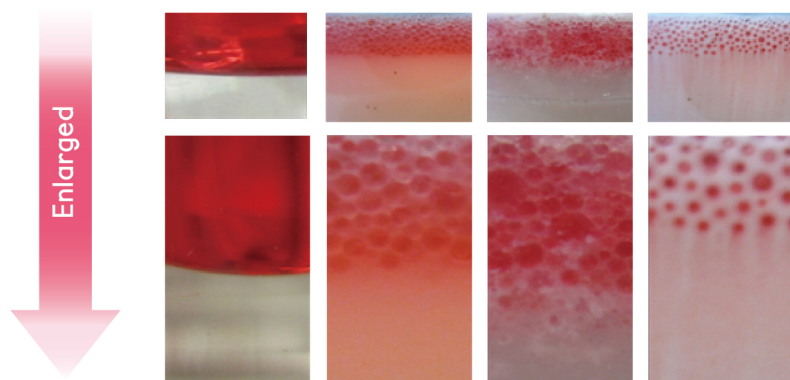
Advantages of BIOFERM OIL®



- Skin efficacy ▲
- Free fatty acid contents ▲
- Emulsifying capacity ▲
- Skin absorption ▲
- Excellent applying texture
- High stability

BIOFERM OIL® formation Process (Morphology Change)

During the fermentation, as time goes by, the surface tension is decreased, so the emulsifying activity is increased.



BIOFERM OIL® Emulsifying Capacity

	Before	1hour
Lithospermum oil		
BIOFERM RED OIL™		

	Before	1hour
Pine seed oil		
BIOFERM PINE SEED OIL™		

BIOFERM RED OIL™

INCI Name Saccharomyces/Lithospermum Erythrorhizon Root Oil Ferment Filtrate

● Wrinkle improvement



5% BIOFERM RED OIL™ Cream

● Lip conditioning



5% BIOFERM RED OIL™ Lip-balm

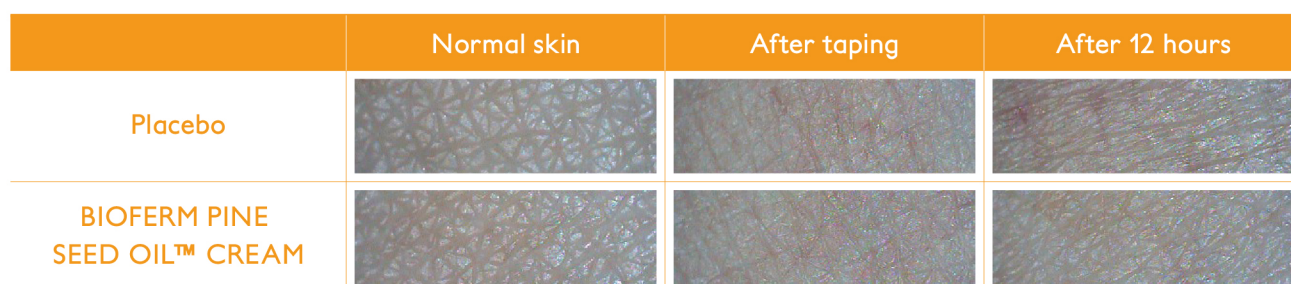
● Free Fatty Acid Analysis

	Contents (ppm)				
	Linoleic acid	Linolenic acid	Oleic acid	Palmitic acid	Stearic acid
Lithospermum oil	30214.4	2589.4	140851.6	61440.2	17142.5
BIOFERM RED OIL™	58600.6	3096	168131.1	80028.2	25670.3
Rate of increase	95%	20%	90%	31%	50%
Beneficial to skin efficacy				Beneficial for emulsifying capacity	

BIOFERM PINE SEED OIL™

INCI Name Saccharomyces/Pinus Koraiensis Seed Oil Ferment Filtrate

● Skin barrier enhancement



5% BIOFERM PINE SEED OIL™ Cream

● Free Fatty Acid Analysis

	Contents (ppm)				
	Linoleic acid	Linolenic acid	Oleic acid	Palmitic acid	Stearic acid
Pine seed oil	35324.1	2133.4	116702.5	30634.6	9030.4
BIOFERM PINE SEED OIL™	46273.1	2658.4	144536.3	45536.6	14861.4
Rate of increase	31%	25%	25%	50%	65%
Beneficial to skin efficacy				Beneficial for emulsifying capacity	