



VEGAN



ISO 16128



20364G.

ACB

Lemon Peel Extract G

BIOFERMENT

Conditioning
Nourishing

actions



WHITE SHEET.

THE REGULATION.

INCI. Glycerin & Water & Lactobacillus/Lemon Peel Ferment Extract
CAS. 56-81-5 & 7732-18-5 & 84929-31-7
EINECS. 200-289-5 & 231-791-2 & 284-515-8
EUROPE. Compliant
USA. Compliant
CHINA. Contact Us

THE SPECIFICATION.

Origin. Botanical/Bacteria
Natural Antimicrobial. Leuconostoc/Radish Root Ferment Filtrate*
Preservatives. None
Solvents Used. Glycerin & Water
Soluble/Miscible. Water Soluble
Appearance. Clear to Slightly Hazy Liquid
Use Level. 0.5 - 2.0 %

* Please note this product contains Leuconostoc/Radish Root Ferment Filtrate (Tradename: M15008-Leucidal® Liquid) - produced by Active Micro Technologies, LLC - containing 18.0-22.0% Phenolics (tested as Salicylic Acid). Please refer Leucidal® Liquid product literature for additional information.

THE STORY.

When life gives you lemons, don't throw away the peel. Hidden within this often-overlooked part of the fruit is a remarkable collection of phytochemicals that contribute to lemon's longstanding reputation in nutrition and wellness. Today, these same compounds are finding new purpose in cosmetics, bringing the power of citrus-inspired bioactives to modern skin care formulations. By combining the principles of sustainability and biofermentation, ACB Lemon Peel Extract G gives new life to lemon peel, transforming this underutilized byproduct into a source of bioactive compounds for modern cosmetic innovation.

Lemon peel is more than a source of citrus fragrance. Rich in naturally occurring antioxidants, vitamins, nutrients, and other bioactive compounds, lemon peel has demonstrated broad-spectrum cosmetic benefits that support healthy-looking, resilient skin. Research has shown that lemon peel extracts help protect against oxidative stress, support skin clarity and radiance, modulate inflammatory responses, and promote processes associated with skin renewal and recovery.^{1,2} These activities are supported by studies demonstrating free radical scavenging activity, inhibition of tyrosinase, reduction of pro-inflammatory mediators, and enhancement of keratinocyte migration, suggesting that lemon peel can influence multiple biological pathways involved in skin appearance and function.¹ Together, these findings position lemon peel as a versatile cosmetic ingredient capable of supporting brighter, smoother, and more balanced-looking skin.

The biofermentation process offers an additional layer of innovation by helping unlock the full potential of botanical materials. During fermentation, beneficial microorganisms transform complex plant constituents into smaller, more bioavailable compounds while generating additional metabolites that can contribute to enhanced biological activity.³ Research has shown that fermentation can increase the availability of antioxidants and other beneficial phytochemicals while improving compatibility with the skin.³

By applying biofermentation to upcycled lemon peel, ACB Lemon Peel Extract G combines the inherent benefits of citrus-derived bioactives with a process designed to maximize their cosmetic relevance, creating a multifunctional ingredient that supports both product performance and sustainable formulation strategies.



References:

- Huang J, Xu X, Liu C, Liu L. Exploring the Potential of Lemon Peel Extracts in Cosmetics: Chemical Composition and Bioactive Properties. Journal of Microbiology and Biotechnology. 2025.
- Gao X, Xu D, Zhang X, Zhao H. Protective Effect of Lemon Peel Polyphenols on Oxidative Stress-Induced Damage to Human Keratinocyte HaCaT Cells Through Activation of the Nrf2/HO-1 Signaling Pathway. Frontiers in Nutrition. 2021.
- Majchrzak W, Motyl I, Śmigielski K. Biological and Cosmological Importance of Fermented Raw Materials: An Overview. Molecules. 2022.

Active Concepts LLC
 Lincolnton, NC - USA
 Tel +1 704-276-7100
 info@activeconceptsllc.com

Active Concepts SRL
 Bareggio, (Milano) Italy
 Tel +39 02 90360719
 info@activeconcepts.it

Active Concepts LLC, Asia
 Kaohsiung, Taiwan
 Tel + 886 73599900
 info-asia@activeconceptsllc.com.tw



Website

www.activeconceptsllc.com



Social Media

@activeconceptsglobal