



# AMBIOME™ SKC Aloe Fermented

THE POWER OF FERMENTED ALOE  
FOR SKIN CARE FORMULATIONS



## SPECIFICATIONS:

**INCI Name:** Lactobacillus/Aloe Barbadensis Ferment Filtrate

**CHINA INCI Name:** 芦荟叶汁发酵滤液

**CAS Number:** 85507-69-3

**PLANT USED:** Organic aloe leaves.

**TECHNOLOGY:** Precise Fermentation Technology and HPP (for natural compound preservation)

**ORGANIC Certified:** LPO, NOP, EC ECOCERT

**COSMOS Certified:** ECOCERT

**Fair Trade Certified:** ECOCERT

**Halal Certified:** IFANCA (agreement with LPPOM MUI in Singapore, Indonesia and Malaysia)

**Kosher Certified:** JAY

**Suggested dosage:** 1%-2% w/w Skin Care and Hair Care.

## All AMB Wellness Raw Material products are:

- ✓ Organic
- ✓ No GMO
- ✓ No additives
- ✓ No Pesticides
- ✓ Continued standard of premium quality
- ✓ Preserves the Aloe's biological activity
- ✓ Endorsed by IASC
- ✓ No Preservatives
- ✓ Low Microbiological Counts



COSMOS



Kosher



IASC



EC Organic



NOP Organic



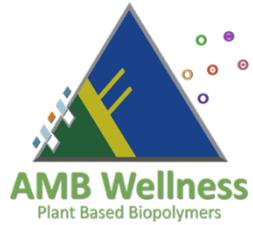
LPO Organic



Halal



Fair Trade



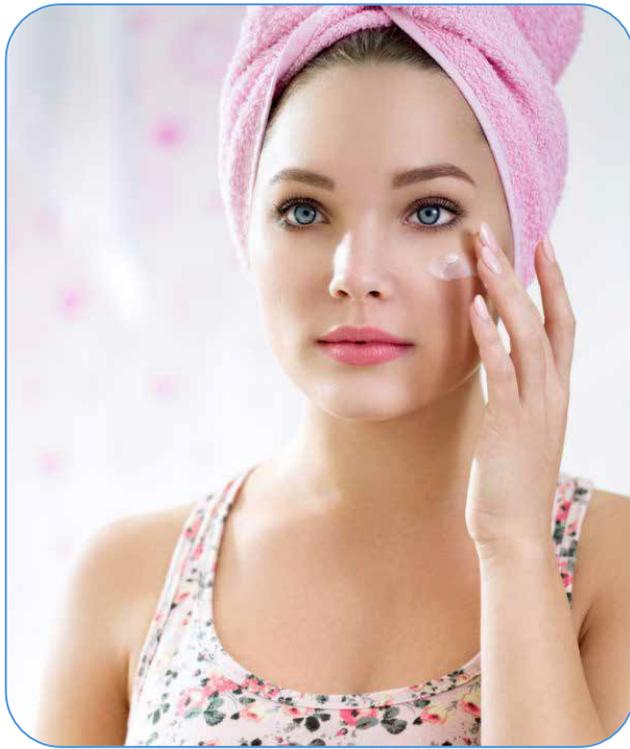
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The cosmetics sector is a rapidly growing industry that has faced challenges in recent years due to the origin and impact of its ingredients and manufacturing processes. Biotechnology, with fermentation as a core technology, offers a solution to support and drive more sustainable growth in the cosmetic industry. Recent research and development in cosmetic fermentation highlight multiple examples across all classes of ingredients: from functional compounds such as oils and surfactants, to multi-functional molecules with a broad range of formulations and skin benefits. These benefits, derived from their emulsifying, antimicrobial, or antioxidant properties, demonstrate how fermentation has emerged as a technological field enriched with innovations that enable more effective ingredients. Skin-related benefits from fermentation are attributed to a variety of factors.

AMBIOME™ Aloe Fermented enhances the bioavailability of nutrients in the final fermented product. Aloe, widely recognized for its use in skincare formulations, becomes more accessible and readily absorbed by the skin.



AMBIOME™ SKC Aloe Fermented, is our Aloe with active ingredients created by the precise fermentation from AMB Wellness, using a proprietary culture of strains isolated from our plant aloe vera and deactivated benefit bacterias with state of the art, High Pressure Processing (HPP), which is a non-thermal (5°C – 20°C) aloe vera gel preservation method that guarantees the preservation of the organoleptic and nutritional attributes of the plant, using Aloe natural carbon sources are biochemically transformed into smaller, more bioavailable compounds called postbiotics; this process significantly enhances the biological activity, skin compatibility, and anti-aging efficacy of the ingredient.

Short-chain fatty acids (SCFAs), organic acids, and enzymes that are obtained through precise fermentation process support the skin, reducing inflammation, and helping restore optimal skin function, all key factors in slowing wrinkle formation. Aloe can stimulate fibroblast activity and support collagen synthesis, improving firmness and reducing fine lines. AMBIOME™ SKC Aloe Fermented delivers multiple skin benefits across a wide range of cosmetic products, including brightening, sun protection, anti-aging and antioxidant support, deep hydration, and optimal balance of water and oil for healthy, radiant skin. Research shows that fermentation significantly enhances biochemical activity by converting high-molecular-weight compounds into smaller, more bioavailable structures. This allows your skin to absorb these ingredients more effectively, working in harmony with its natural processes.

Skincare companies can focus AMBIOME™ SKC Aloe Fermented for gentle humectants that attract and bind moisture without disturbing the skin's microbial balance. Fermented Aloe is microbiome-friendly formulations. This powerful humectant draws and holds water in the skin. It creates a plump, hydrated environment where beneficial bacteria flourish. Skincare routines rely on its immediate and long-lasting hydration effects. AMBIOME™ SKC Aloe Fermented provides both hydration and microbiome support through its unique properties. Beyond soothing effects, it contains polysaccharides that support beneficial bacteria. Lactobacillus plantarum-fermented aloe shows remarkable moisturizing power compared to unfermented versions.

### Product Applications

- 🌿 Nourishing creams
- 🌿 Hydrating Serums
- 🌿 Cleansers & Micellar Waters
- 🌿 Regenerating Night Creams
- 🌿 Stretchmark Lotions
- 🌿 Scrub gels
- 🌿 Intimate Body Wash
- 🌿 Scalp Serums
- 🌿 Acne Cleansing Gel
- 🌿 After-Sun Gels
- 🌿 Soothing Shaving Cream
- 🌿 Daily Relief Creams
- 🌿 Redness and calming creams
- 🌿 Luminous face serums
- 🌿 SkinBrightening Gels
- 🌿 Rejuvenating eye creams
- 🌿 Oil-control toners
- 🌿 Anti-inflammatory night creams
- 🌿 Antioxidant daily creams
- 🌿 Anti-hyperpigmentation serums



## BENEFITS OF AMBIOME™ SKC Aloe fermented

- Targets skin anti-aging while promoting overall skin health.
- Boosted phytocomplex through fermentation.
- Antioxidant-rich fermented aloe enhances clarity, texture, and elasticity.
- Supports improved skin barrier function for moisture retention and protection.
- Boosts keratinocyte metabolism (in vitro test).
- Providing natural moisturizing factor (NMF) to skin.
- Provides antimicrobial protection via SCFAs and beneficial bacteria.
- Maintains healthy skin pH and microbiome for enhanced skin health.
- Protects collagen and boosts its synthesis (in vitro test).
- Helps reduce skin inflammation, benefiting sensitive conditions.
- Uses sustainable fermentation technology, aligning with biotech-driven future skincare.
- Promotes wound healing (in vitro test).
- Enhances skin hydration up to 400% using fermented aloe and natural moisturizing factors.
- Soothes inflammation and provides broad-spectrum natural UV protection.
- Confirmed by application tests with regular use of the Instant Emergency Cream Gel over 4 weeks with test subjects and subsequent dermatological assessment.
- Five times more effective than standard aloe in moisturizing skin (in vivo test).
- Ferment offers antimicrobial and preservative effects via bacteriocins and organic acids.
- Improves short-term, long-term and deep moisturization (in vivo test).
- Improves skin smoothness, radiance, and hydration while maintaining a healthy microbial balance. Increases skin firmness and gives a feeling of relief, freshness and comfort (+33% in 30 days, in vivo test, clinical tests).
- Helps hair to retain moisture (+26% rinse-off, +54% leave-on, ex vivo test).
- Reduces skin scaliness (-16% in 15 days, in vivo test).
- Allows the skin to absorb nutrients more efficiently.
- Acts like a natural anti-ageing solution.
- Mitigates acne, eczema, and premature aging.
- Fermentation can boost antioxidant levels, with free radical scavenging activity increasing with longer fermentation time.
- Antioxidant properties, aiming to improve skin clarity, texture, and elasticity.

- Improved skin barrier function: SCFAs can contribute to the integrity of the skin barrier.
- Antimicrobial protection of SCFAs and the beneficial bacteria they support can help protect against infections.
- Improves the skin's microbiome and maintains a healthy pH and, contribute to overall skin health.

### *The test results for AMBIOME™ SKC Aloe fermented :*

- 139% moisturization as an immediate effect after 20 minutes. \*
- 176% moisturization as a long-term effect after 4 weeks. \*
- 90% of test subjects confirm faster regeneration and soothing of irritated skin. \*
- 95% of test subjects confirm a smooth and supple skin feeling. \*
- 53% improvement in the overall appearance of the skin. \*
- Increases the amino-acid protein content by 118%.

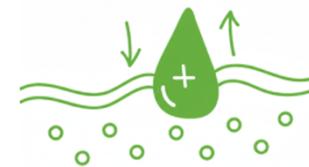




AMBIOME™ SKC Aloe Fermented additionally has a possible synergistic effect associated with lactic acid fermentation, to more clearly explain the higher anti-skin wrinkling effects obtained with the FE, the distribution of polysaccharides in the extracts was also examined because many previous studies have indicated that most biological activities of aloe are likely caused by various types of polysaccharides\*  
**\*(Seon Ro et al, 2020)**



Anti-skin wrinkling effects of *A. arborescens* were confirmed by investigating the inhibition of MMP-1 synthesis by AMBIOME™ SKC Aloe Fermented, MMP-1 initiates the degradation of collagens produced by fibroblast cells, which can result in wrinkles on the surface of human skin\*  
**\*(Seon Ro et al, 2020)**



AMBIOME™ SKC Aloe Fermented after the fermentation process might exhibit enhanced anti-skin wrinkling activities due to its high antioxidant activity because other studies have shown that high anti-skin wrinkling effects might be closely associated with high antioxidant activity\*  
**\*(Seon Ro et al, 2020)**

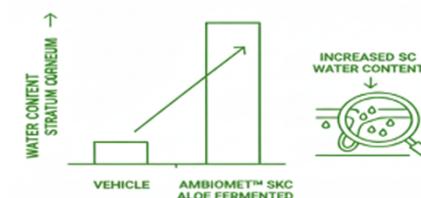


When compared with the vehicle, all formulations containing AMBIOME™ SKC Aloe fermented increased the water content of the stratum corneum, after a 1-week period of application.  
**\*\* (Dal'Belo et al, 2006)**



AMBIOME SKC Aloe fermented is a natural effective ingredient for improving skin hydration, possibly through a humectant mechanism. Consequently, it may be used in moisturizing cosmetic formulations and also as a complement in the treatment of dry skin.\*\*  
**\*\* (Dal'Belo et al, 2006)**

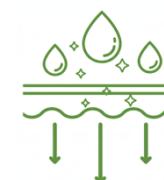
**SKIN MOISTURE IMPROVEMENT**



AMBIOME™ SKC Aloe fermented showed a humectant mechanism when improving skin moisture as it significantly increased the water content of the stratum corneum (SC) although it did not alter the transepidermal water loss (TEWL)\*\*  
**\*\*\*\* (Dal'Belo et al, 2006)**



*In vivo* results indicated that *Aloe vera* fermentation produced more eosinophils and fibroblasts and less vessel proliferation compared with the model group on the 14th day, which had greatly accelerated burn injury healing via shedding of the scab and promoting hair growth.  
**\*\*\*\*\* (Zhiwen Hai et al, 2019)**



Applications for bioferments is broad and includes properties such as antioxidant, anti-aging hydrating, and anti-allergic (aloe vera). Fermentation increases the biochemical and physiological activity of the substrate by converting high-molecular compounds into low-molecular structures, making fermented raw materials more compatible compared to unfermented raw materials.  
**\*\*\*\*\* (Majchrzak et al, 2022)**



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If you want to receive more information related to AMBIOME™ SKC Aloe Fermented, please do not hesitate to contact us.

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