

12048.

AC Skinmuni-Tea

BIOFERMENTS



VEGAN



COSMOS



IN VITRO



IN VIVO



ISO 16128



CHINA



THE FEATURES.

As the idea of beauty expands, consumers are thinking beyond traditional beauty categories and looking to fulfill their self-care needs. Active Concepts harnesses the power of matcha tea to create a unique anti-stress active capable of improving mood and promoting relaxation. There is an intricate connection between the mind and body. Our research explores the link between mood and skin with this potent biofermented matcha ingredient. This active optimizes skin immunity and reduces inflammation. This antioxidant powerhouse is standardized for niacinimide and vitamin C, delivering a potent dose of vitamins to boost dermal wellness.

Water (and) Lactobacillus (and) Camellia Sinensis Leaf Extract (and) Lactobacillus Ferment

Actions

Mood-Boosting
Skin Immunity
Well-Aging
Antioxidant
Moisturizing

TECHNICAL DATA SHEET.



THE REGULATION.

INCI. Water & Lactobacillus & Camellia Sinensis Leaf Extract & Lactobacillus Ferment
CAS. 7732-18-5 & 68333-16-4 (or) 92128-79-5 & 84650-60-2 & 68333-16-4 (or) 1686112-36-6 (or) 9015-54-7
EINECS. 231-791-2 & N/A (or) 295-777-8 & N/A (or) 295-635-5
EUROPE. Compliant
USA. Compliant
CHINA. Compliant

THE SPECIFICATION.

Origin. Botanical/Bacteria
Natural Antimicrobial. Lactobacillus Ferment
Preservatives. None
Solvents Used. Water
Soluble/Miscible. Water Soluble
Appearance. Clear to Slightly Hazy Liquid, Pale Yellow to Amber
Use Level. 1- 10%



THE STORY.

The common phrase, “a gut feeling,” means following the physical feeling your body gives you when making the right or wrong decision. This phrase stems from the idea that there is a bidirectional communication between the gut and the brain, known as the gut-brain axis. This communication links the central nervous system with the enteric nervous system and occurs through various pathways, including the vagus nerve, neurotransmitters, the immune system, and gut microbiota.¹ Recent research suggests that gut bacteria may have an influence on our emotions and cognitive capabilities.

The gut-brain axis has led to the exploration of the connection between the gut and the skin. The gut and skin share many features. Both are supported by a dense network of blood vessels, nerves and immune cells.² When the balance of either microbiome is disrupted, an imbalance called dysbiosis can occur. This can alter the immune response and potentially lead to skin disease. Research suggests modulating the gut microbiome could be a therapeutic approach for skin diseases, such as psoriasis.³

Based on existing research of the gut-brain-skin relationship, Active Concepts theorizes a connection between the brain and skin, exploring how the mind and our mood are related to the skin. By doing so, skincare can be an effective tool not only for achieving clear, luminous skin, but also for boosting your mood and mental health, offering a holistic approach to beauty and wellness. In recent years, a notable shift in consumer priorities towards wellness has transformed the landscape of beauty and personal care. This shift presents opportunities for brands to cater to the desires and needs of older consumers who are embracing well-aging and looking for products and messages that support their holistic well-being. Unlike anti-aging, which focuses on combating fine lines and wrinkles, well-aging prioritizes emotions and well-being in the aging process, preferring the mental and emotional balance that comes with taking care of one’s self.

THE SCIENCE.

At the intersection of health, wellness, and beauty, we can find the evolving trend of immunocosmetics — products that boost the skin’s natural defense system against external aggressors. Skin immunity is the skin’s defense system against external threats. It’s a combination of the skin’s physical barrier, microbiome, and sophisticated network of immunity cells which allow it to both resist and actively fight infection. When the immune system is dysregulated, it often results in impaired tissue restoration, function, and diminished healing.⁴

By selecting barrier-building ingredients, we can support the skin’s immune system and strengthen the skin’s microbiome. Topical antioxidants, such as vitamin B and vitamin C, can boost the skin’s immunity. Niacinamide (vitamin B3) reduces inflammation and strengthens the skin’s moisture barrier, while vitamin C neutralizes free radicals and stimulates collagen production.⁵ Together, these key vitamins can support and fortify the skin’s natural defenses resulting in a strong skin barrier.

AC Skinmuni-Tea is a fermentation of matcha leaves with *Lactobacillus* to create a potent active that enhances mood and promotes relaxation. Active Concepts explores the connection between mood and skin and the effect they have on each other. Stress is known to play a role in skin inflammation by activating the body’s stress response, which releases hormones that can directly impact the skin. By reducing stress, we can have a positive impact on our skin. AC Skinmuni-Tea optimizes skin immunity and reduces inflammation by capitalizing on vitamins naturally found in matcha. Niacinimide (vitamin B3) and vitamin C provide antioxidant protection and well-aging support.

THE BENEFITS.

Skin

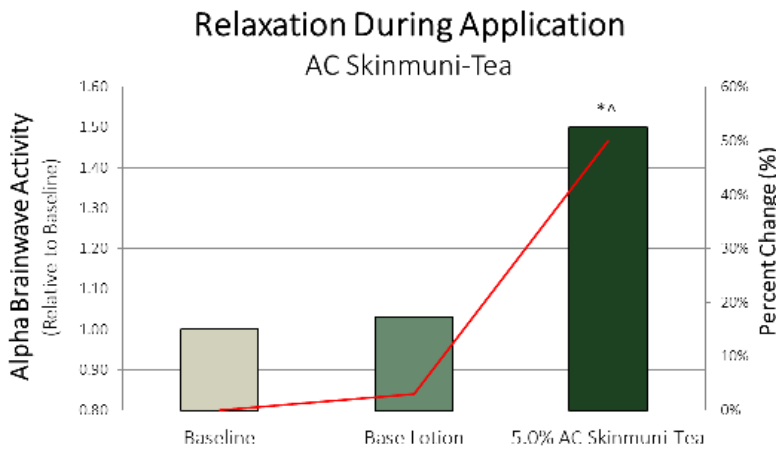
- Mood Boosting** Mood Survey
- Promotes Relaxation** EEG Brainwave Study
- Skin Immunity** Dermal Microbiome Immunology Assay
- Anti-Inflammation** IL-1 α ELISA
- Exfoliation** Cellular Renewal
- Detoxification** Cellular Detoxification

- Moisturization** 24-Hour Moisturization Study
- Moisture Retention** 24-Hour TEWL Study
- Antioxidant** ORAC Assay Analysis
- Redness Reduction** VISIA Reduction in Red Areas
- Wrinkle Reduction** VISIA Reduction in Wrinkles
- Less Surface Spots** VISIA Reduction in Spots
- Less Visible Pores** Reduction in Visible Pores

THE EFFICACY.

EEG Brainwave Study.

An EEG Brainwave Study was conducted to evaluate the immediate relaxation and calming properties of AC Skinmuni-Tea upon application. A headband is placed on the forehead of participants and brainwaves are monitored as products are applied to the skin. The brainwaves associated with relaxation and calmness are isolated and analyzed to provide insight to the psychological state during product application.



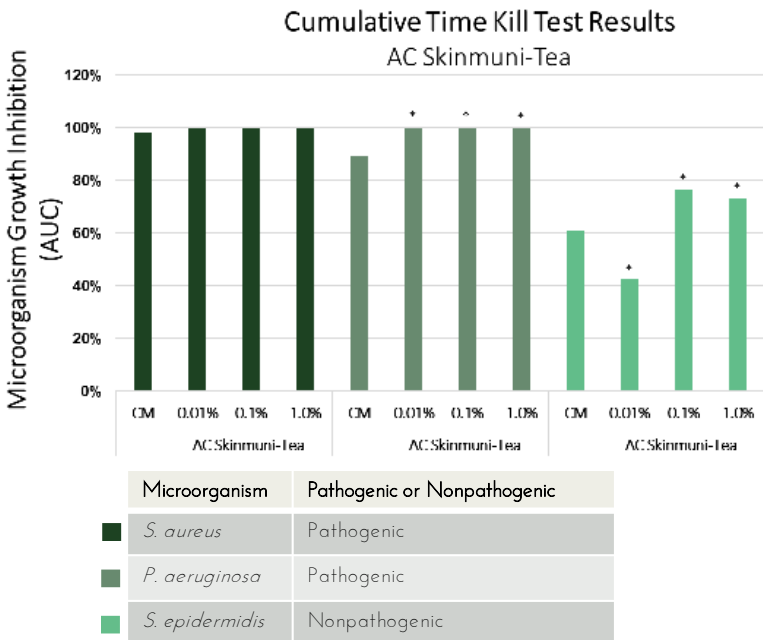
Increased alpha brainwave activity
(50% at 5%)

Relaxation.

Immediate calming properties & Improved psychological state

Dermal Microbiome-Immunology Assay.

Dendritic cells are a small group of heterogeneous cells residing in the epidermis and dermis known as the gatekeepers of the immune system. A Dermal Microbiome-Immunology Assay was conducted to assess the effect of antimicrobial-free AC Skinmuni-Tea to alter dendritic cell paracrine signaling molecules to kill detrimental microorganisms and maintain commensal microbiota commonly found on the skin.



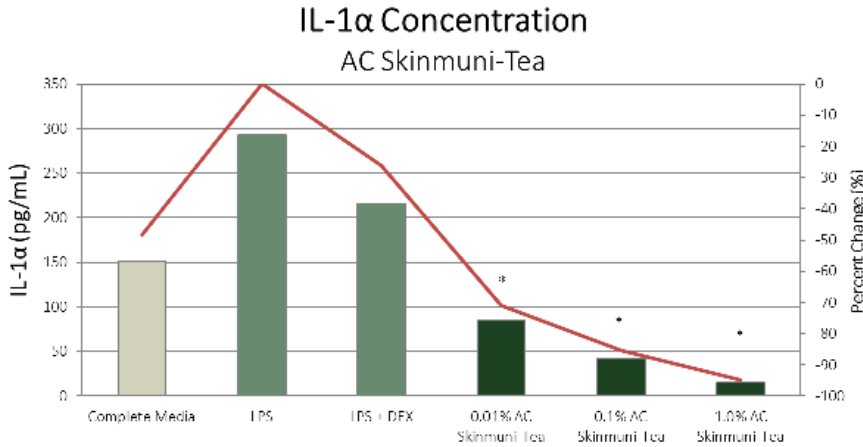
Maintained commensal microbiota, *S. epidermidis*
(57% at 0.01%)

Skin Immunity.

Skin homeostasis & Microbiome balance

IL-1 α ELISA.

IL-1 α is a pro-inflammatory cytokine that is largely responsible for the initial inflammatory response and induces the production of other inflammatory mediators. In keratinocytes, chronically elevated IL-1 α levels can lead to hair loss, scaling, and a reduction in skin elasticity. An IL-1 α ELISA was conducted to assess the *in vitro* effect of AC Skinmuni-Tea on IL-1 α concentrations produced by keratinocytes in a pro-inflammatory environment.



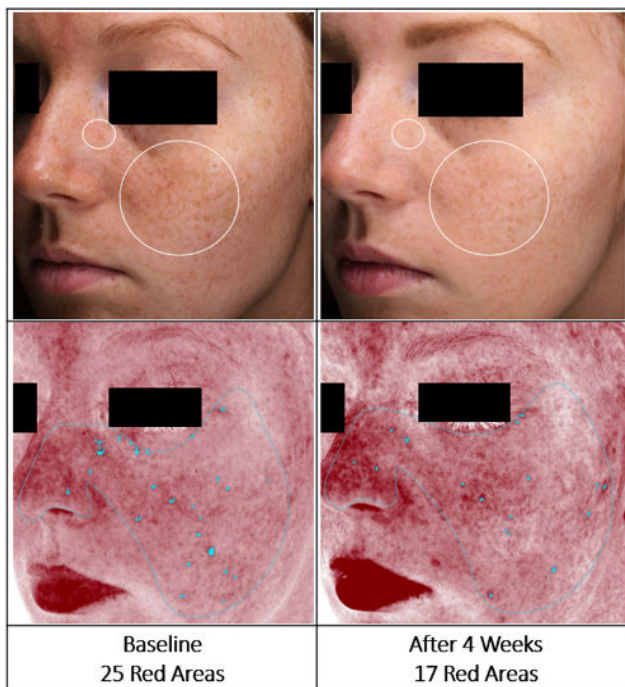
Reduction in IL-1 α levels compared to LPS-treated keratinocytes (95% at 1%)

Anti-Inflammation.

Skin soothing properties

VISIA Reduction in Red Areas.

An in-vivo study was conducted over a period of four weeks to evaluate the ability of AC Skinmuni-Tea to reduce Red Areas on the face. Participants applied specific products to designated halves of their face twice a day for four weeks. Measurements were collected once a week during the four-week study period. Photographs of participant faces were obtained using the VISIA Complexion Analysis System



Reduced red areas on the skin (21% at 5%)

Reduced Redness.

Improves skin health and provides a youthful appearance

References:

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2. Thye AY, Bah YR, Law JW, Tan LT, He YW, Wong SH, Thurairajasingam S, Chan KG, Lee LH, Letchumanan V. Gut-Skin Axis: Unravelling the Connection between the Gut Microbiome and Psoriasis. *Biomedicines*. 2022 Apr 30;10(5):1037. doi: 10.3390/biomedicines10051037. PMID: 35625774; PMCID: PMC9138548.
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