

10568PF.

ABS

Coconut Water PF

BOTANICAL EXTRACTS



VEGAN



IN VIVO



IN VITRO



CHINA



ISO 16128



THE FEATURES.

ABS Coconut Water PF is a skincare ingredient that delivers deep hydration and potent antioxidant protection. Rich in natural nutrients, coconut water can help regulate skin moisture, strengthen the skin barrier, and prevent dehydration-induced damage. Its bioactive compounds neutralize free radicals, reducing oxidative stress and signs of aging such as wrinkles and dullness. Additionally, coconut water supports skin resilience, soothes irritation, and promotes a naturally radiant complexion. As demand for clean and effective beauty products grows, ABS Coconut Water PF capitalizes on the benefits of coconut water and offers brands a versatile, high-performance solution for hydration-focused skincare formulations.

Cocos Nucifera (Coconut) Water

actions

Enhances Hydration
Barrier Function
Antioxidant
Antimicrobial

TECHNICAL DATA SHEET.

THE REGULATION.

INCI. Cocos Nucifera (Coconut) Water
CAS. 8001-31-8
EINECS. 232-282-8
EUROPE. Compliant
USA. Compliant
CHINA. Compliant

THE SPECIFICATION.

Origin. Botanical/Bacteria
Natural Antimicrobial. Leuconostoc/Radish Root Ferment Filtrate*
Preservatives. None
Solvents Used. None
Soluble/Miscible. Water Soluble
Appearance. Clear to Hazy Liquid
Use Level. 1 - 10 %

* 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.

For centuries, island communities have turned to coconut water as a natural source of hydration, nourishment, and vitality. The coconut palm, scientifically known as *Cocos nucifera*, belongs to the *Arecaceae* family and is often referred to as “Kalpavriksha”—the tree that grants all desires—in India, a testament to its multifaceted benefits.¹ In other cultures, it is celebrated as the “Tree of Life” or “Tree of Abundance”, highlighting its indispensable role in food, medicine, and industry. Within this extraordinary fruit lies coconut water, a nutrient-rich liquid that has been revered for its therapeutic and hydrating properties. In India, it is known as “Sriphala”—The God’s Fruit, playing a vital role in cultural traditions and holistic medicine. Beyond hydration, coconut water has been historically used for oral rehydration, intestinal health, and as a remedy for dehydration-related illnesses. Thanks to its balanced electrolyte profile, it can effectively restore lost moisture, whether through internal replenishment or topical application.

Today, as wellness-conscious consumers embrace coconut water for natural hydration, the beauty industry is unlocking its skin-rejuvenating potential. Dubbed “Mother Nature’s tropical cocktail,” coconut water is packed with essential nutrients, antioxidants, and bioactive compounds that work to hydrate, refresh, and restore the skin. These elements not only provide deep hydration but also help to support the skin barrier and provide protection against environmental protection. As demand for clean, high-performance beauty continues to rise, ABS Coconut Water PF delivers a refreshing, skin-quenching solution for today’s hydration-focused products. Whether you’re looking for instant refreshment, lasting hydration, or age-defying benefits, ABS Coconut Water PF is the ultimate fusion of nature, beauty, and innovation—delivering results you can see and feel.

THE SCIENCE.

Coconut water serves as a bioavailable hydration source, delivering essential electrolytes that play a critical role in maintaining skin homeostasis. These electrolytes help regulate cellular osmoregulation, ensuring optimal water retention within keratinocytes and preventing dehydration-induced barrier disruption.² Without proper hydration, the skin’s protective barrier weakens, leading to a dull, tight, and rough appearance with increased fine lines and sensitivity. Environmental factors like cold weather, sun exposure, and indoor heating, along with lifestyle habits such as caffeine consumption and inadequate water intake, can strip the skin of essential moisture. As hydration levels drop, the skin becomes more prone to irritation, redness, and premature aging. By replenishing moisture with nutrient-rich sources like coconut water, skin can maintain its natural glow, smoothness, and resilience.

Coconut water contains essential micronutrients that support the body’s antioxidant system. These nutrients help neutralize harmful reactive oxygen species (free radicals) produced during oxidative metabolism, preventing cellular damage.³ Free radical damage accelerates skin aging by breaking down collagen, weakening the skin barrier, and causing inflammation, leading to wrinkles, sagging, and uneven tone. In cosmetics, this antioxidant property protects skin cells from oxidative stress, reducing signs of aging such as fine lines, wrinkles, and dullness. Additionally, coconut water contains beneficial compounds that contribute to skin hydration and repair. By quenching free radicals and supporting enzymatic antioxidant defenses, coconut water enhances skin health and resilience. This makes it a valuable ingredient in skincare products aimed at maintaining youthful and radiant skin.

Coconut water is a powerhouse ingredient for skincare, offering both deep hydration and potent antioxidant protection. Its rich blend of electrolytes and micronutrients helps maintain skin moisture while neutralizing free radicals that contribute to premature aging. By incorporating ABS Coconut Water PF into formulations, brands can enhance skin resilience, improve texture, and promote a naturally radiant complexion.

THE BENEFITS.

Skin

Hydration Moisturization Study



Antioxidant ORAC Assay



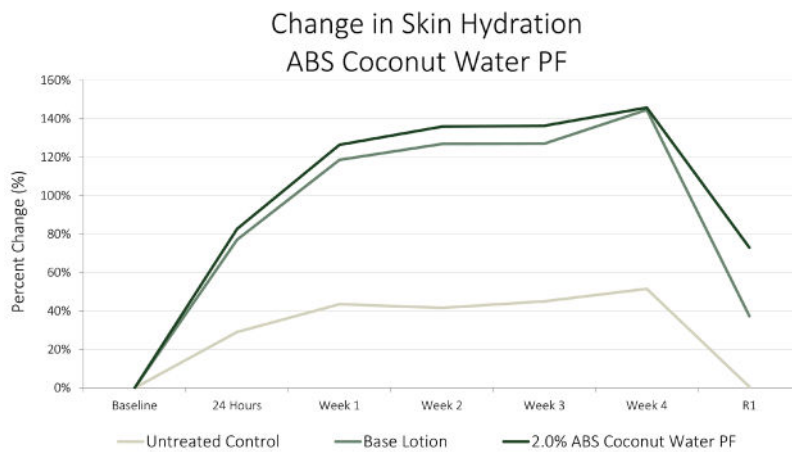
Barrier Function Transepidermal Water Loss Study



THE EFFICACY.

Moisturization Study.

A moisturization study was conducted to evaluate the skin hydrating properties of ABS Coconut Water PF. Three randomly assigned test sites were identified on the volar forearm of participants and baseline moisture measurements were recorded. Following baseline measurements, participants applied 0.2 g of each test material (untreated, base lotion, or 2.0% ABS Coconut Water PF in base lotion) on their volar forearms twice a day for four weeks. Moisture measurements were recorded once a week for four weeks and up to 24 hours after application ceased.



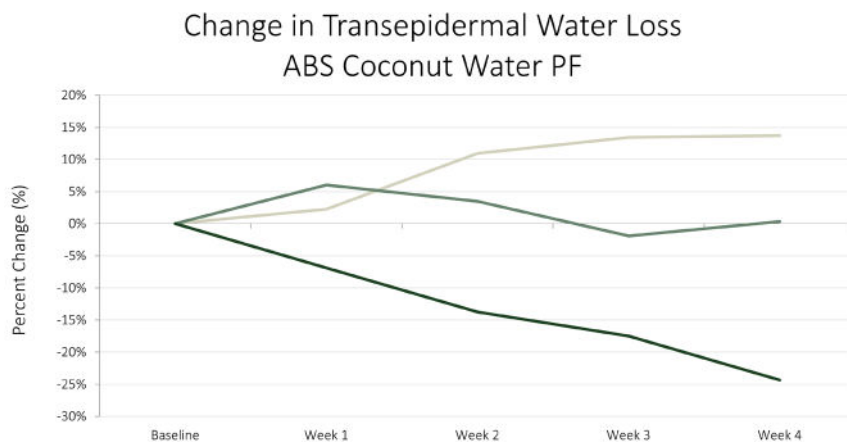
Increased skin moisturization by +146% after 4 weeks compared to baseline measurement
(at 2.0%)

Amplifies hydration.

Moisturizing
&
Promotes healthier looking skin

Transepidermal Water Loss.

A transepidermal water loss (TEWL) study was conducted to evaluate the moisture retention properties of ABS Coconut Water PF. Three randomly assigned test sites were identified on the volar forearm of participants and baseline TEWL measurements were recorded. Following baseline measurements, participants applied 0.2 g of each test material (untreated, base lotion, or 2.0% ABS Coconut Water in base lotion) on their volar forearms twice a day for four weeks. TEWL measurements were recorded once a week for four weeks.



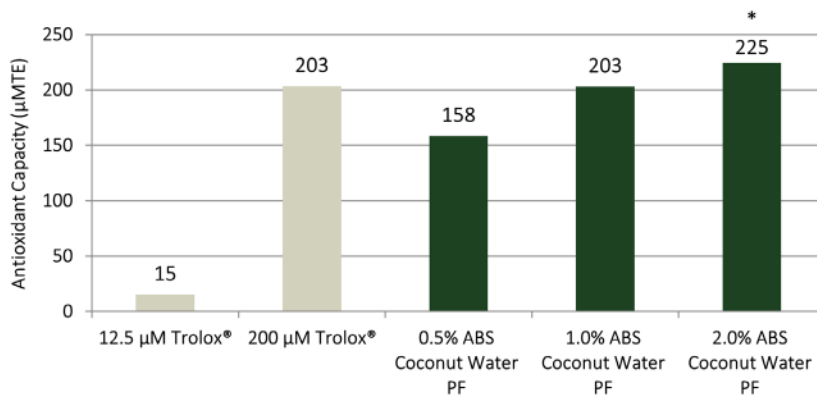
Significantly reduced TEWL by -24% after 4 weeks compared to baseline measurement
(38% tested at 1%)

Barrier Function.

Moisture Retention
&
Contributes to the appearance of healthier looking skin

Oxygen Radical Absorbance Assay.

An Oxygen Radical Absorbance Capacity (ORAC) assay was conducted to assess the antioxidant capacity of ABS Coconut Water PF. This assay is based upon the effect of peroxy radicals generated from the thermal decomposition of 2, 2'-azobis-2-methyl-propanimidamide dihydrochloride (AAPH) on the signal intensity from the fluorescent probe, fluorescein, in the presence of an oxygen radical absorbing substance. The antioxidant protection of the sample can be calculated by comparing it to a set of known standards. Trolox®, a water soluble vitamin E analog, with known antioxidant capabilities is used in this ORAC assay as the standard for measuring the antioxidant capacity of unknown substances.



Exhibited greater antioxidant activity than 200µM Trolox® (at 1.0%)

Antioxidant.

Free radical quenching abilities & Cellular protection

References:

1. Devi, M., et al. "The use of coconut in rituals and food preparations in India: a review." Journal of Ethnic Foods. 9.37 (2022).
2. Tuyekar, S., et al. "An Overview on Coconut Water: As a Multipurpose Nutrition". Int. J. Pharm. Sci. Rev. Res. 68.2 (2021): 63-70
3. Yong, J. W. H., et al. "The Chemical Composition and Biological Properties of Coconut (Cocos nucifera L.) Water." Molecules. 14.12 (2009): 5144-5164.

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