

ABS Imperata Cylindrica Extract PF



functional replacement
 promotes brand differentiation
 extreme long-term moisturizing benefits
 trending as exotic and a longevity botanical
For vibrant, younger-looking skin
 potential to increase cellular metabolism

BACKGROUND

Imperata cylindrica, also known as Cogon Grass, is native to warm regions in West Africa that are partial to brief flooding, but it is a hearty plant that is able to survive in a wide range of climates. It is a tall, slender lanceolate that arises from a thick underlayer of rhizomes, and the leaf margins are finely toothed and embedded with silica crystals.

SCIENCE

Because of its ability to survive in flooded environments, it is not surprising that **ABS Imperata Cylindrica Extract PF** is an excellent long-term moisturizer that shows increased hydration effects even after 24 hours. Its potential for increased moisture levels is due to the all-natural, plant extracts that are rich in potassium and 3-dimethylsulfoniopropionate (DMSP), which may help increase intercellular osmosis, as water is believed to be drawn into the cells and may remain there even after showering. DMSP is an osmoprotective compound that can be found in many plants with known moisturizing properties. Research has shown that DMSP is derived from methionine, one of the essential amino acids in human nutrition.

BENEFITS

By increasing hydration within the skin's cells, **ABS Imperata Cylindrica Extract PF** may in turn help to ensure increased cellular metabolism and enhanced collagen synthesis, providing long term skin enhancement properties.

For a modern and elegant solution to dry, wrinkly skin, **ABS Imperata Cylindrica Extract PF** may offer a completely satisfying moisturizer without heavy or unnatural ingredients "weighing down" the skin, leaving one looking younger and feeling healthier and more vibrant.

Code Number: 10306PF

INCI Name: Imperata Cylindrica Root Extract & Water
INCI Status: Conforms
REACH Status: Compliant
CAS Number: 999999-99-4 & 7732-18-5
EINECS Number: 310-127-6 & 231-791-2

Origin: Botanical & Synthetic

Processing:
 GMO Free
 No Irradiation
 No Sulphonation

Additives:
 Preservatives: Potassium Sorbate
 Antioxidants: None
 Other additives: PEG-8, Carbomer

Solvents Used: Water & Glycerin

Appearance: Clear to Slightly Hazy Yellow Gel

Soluble/ Miscible: Water Soluble

Ecological Information:
 88.50% Biodegradability

Microbial Count:
 < 100opg, No Pathogens

Suggested Use Levels: 1.0 - 10.0%

Suggested Applications:
 Moisturizing, Functional Material

Benefits of ABS Imperata Cylindrica Extract PF:

- Intense Moisturizing
- Long-Term Skin Benefits
- May Increase Cellular Metabolism
- Potential to Enhance Collagen Synthesis
- Functional Active
- Promotes Brand Differentiation

ABS Imperata Cylindrica Extract PF

EFFICACY

According to the Karl Fischer method, **ABS Imperata Cylindrica Extract PF** is composed of 65-75% water. Thus based solely on the composition of the plant matter, it may be safe to assume that it is naturally an excellent moisturizer and hydrator. **ABS Imperata Cylindrica Extract PF** is said to provide hydration to the stratum corneum so that it looks younger and wrinkles fade.

The moisturization benefits of 2.0% **ABS Imperata Cylindrica Extract PF** were compared to the biological control.

Test Product: Oil/ Water Emulsion Base + 2.0% **ABS Imperata Cylindrica Extract PF** (in O/W base emulsion)

A nova Impedance Meter was used to determine skin moisturization levels on 12 subjects (M/F) between the ages of 23 and 45. This measurement was considered to be the volunteers' baseline. The subjects were then given the test product to apply to the right side of their face while the left side remained untreated as the biological control. Test subjects were asked to apply the test formulation once daily for a period of 30 days.

The results indicate that **ABS Imperata Cylindrica Extract PF** is capable of increasing average level of skin moisturization by almost 45% when compared to the biological control. The assay illustrates that it is possible to make long-term moisturization claims based on the incorporation of **ABS Imperata Cylindrica Extract PF** in a cosmetic or personal care formula.

Moisturization Study Results

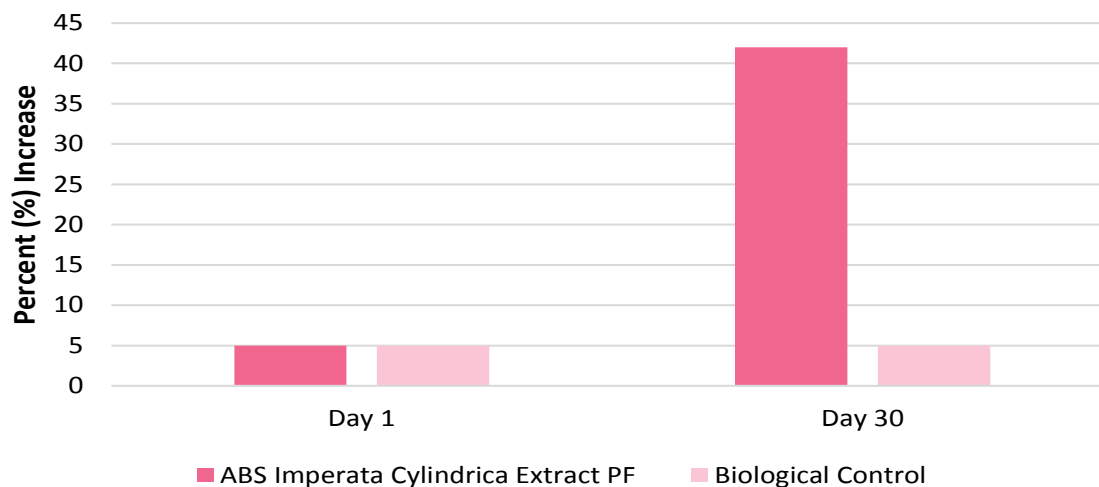


Figure 1. Moisturization results following application of **ABS Imperata Cylindrica Extract PF**.