



Moisturization Assay Report 0.5%

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Tradename: Phytofuse Renew®

Code: 16586

CAS #: 90106-73-3

Test Request Form #: 3972

Lot #: NC180213-C

Sponsor: Active Concepts, LLC; 107 Technology Drive Lincolnton, NC 28092

Study Director: Erica Segura

Principle Investigator: Maureen Danaher

Test Performed:

Moisturization/Hydration Assay

Introduction

An *in-vivo* study was conducted over a period of three weeks to evaluate the moisturization benefits of **Phytofuse Renew®**. 10 M/F subjects between the ages of 23-45 participated in the study. Results indicate that this material is capable of significantly increasing moisturization compared to the control.

The moisturization assay was conducted to assess the moisturizing ability of **Phytofuse Renew®**.

Materials

A. Equipment: DermaLab Skin Combo (Hydration/ Moisture Pin Probe)

Methods

The moisture module provides information about the skin's hydration by measuring the conducting properties of the upper skin layers when subjected to an alternating voltage. The method is referred to as a conductance measurement and the output is presented in the unit of uSiemens (uS). A moisture pin probe is the tool used to gather hydration values.

10 volunteers M/F between the ages of 23 and 45 and who were known to be free of any skin pathologies participated in this study. A Dermalab Corneometer was used to measure the moisture levels on the subject's volar forearms. The Corneometer is an instrument that measures the amount of water within the skin. The presence of moisture in the skin improves conductance therefore results in higher readings than dry skin.

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Therefore the higher the levels of moisture, the higher the readings from the Corneometer will be. Baseline moisturization readings were taken on day one of the study.

Following initial measurements, all subjects were asked to apply 2 mg of each test material on their volar forearms. Measurements were taken immediately after application of test materials and then weekly for 3 weeks. The test material consisted of 0.5% **Phytofuse Renew®** in a base lotion.

For added perspective, measurements of an untreated test site and a site treated with a base lotion (Cetaphil Moisturizing for All Skin Types) were recorded.

Results

Phytofuse Renew® showed very high moisturizing capabilities at a 0.5% concentration. Please note each value is an average of three consecutive readings per test site.

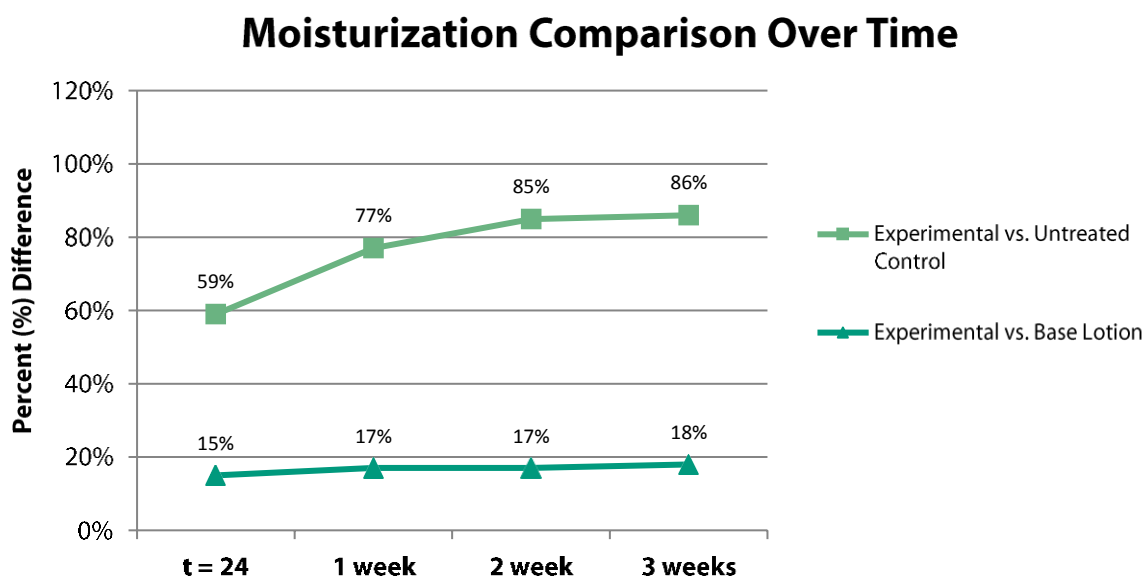


Figure 1. Moisturization Results.

Discussion

As evidenced in a 3 week efficacy study of **Phytofuse Renew®** on skin, moisture levels were improved by 59% after 24 hours and by 86% after 3 weeks when compared to the untreated control. When compared to the base cream **Phytofuse Renew®** improved moisturization by 15% after 24 hours and after 3 weeks **Phytofuse Renew®** improved moisturization by 18%. Results indicate that **Phytofuse Renew®** is capable of increasing moisturization when compared to both the untreated control as well as the base lotion.

The present study confirms that **Phytofuse Renew®** is not only capable of providing functional benefits but it is also capable of providing moisturizing and skin hydrating benefits when added to cosmetic applications.