Active Concepts
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Moisturization/Hydration Assay

Tradename: AC Yogurt Hydrolysate SF

Code: 20531

CAS #: 9015-54-7

Test Request Form #: 3360

Lot #: NC161101-A

Sponsor: *Active Concepts, LLC; 107 Technology Drive Lincolnton, NC 28092*
Study Director: *Maureen Danaher*
Principle Investigator: *Jennifer Goodman*

Test Performed:
Moisturization/Hydration Assay

Introduction

An *in-vivo* moisturization study was conducted over a period of 30 days to analyze the long-term moisturizing effects of **AC Yogurt Hydrolysate SF** on the skin. 15 (M/F) volunteers participated in this study.

Materials

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

Methods

An Impedance Meter (9003 DPM Novameter) was used to measure the moisture levels on the subject's volar forearms. The Nova Meter is an instrument that employs an impedance-based electronic sensing system to evaluate biophysical properties of the skin. The presence of moisture in the skin improves conductance and results in higher readings than dry skin, which has less moisture. Therefore the higher the levels of moisture, the higher the readings from the Impedance Meter will be. Baseline moisturization readings were taken on day one of the study.

Following initial measurements, all subjects were asked to apply two milligrams of each test material on their forearms. The test material, **AC Yogurt Hydrolysate SF,** was incorporated into a benchmark lotion at 5.0%.

For added perspective, measurements of an untreated test site and a site treated with the benchmark lotion with no additives (the control) were also recorded.

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Results

AC Yogurt Hydrolysate SF showed moisturizing capabilities at a 5.0% concentration over the 30 day test period. Please note, each value is an average of three consecutive readings per test site.

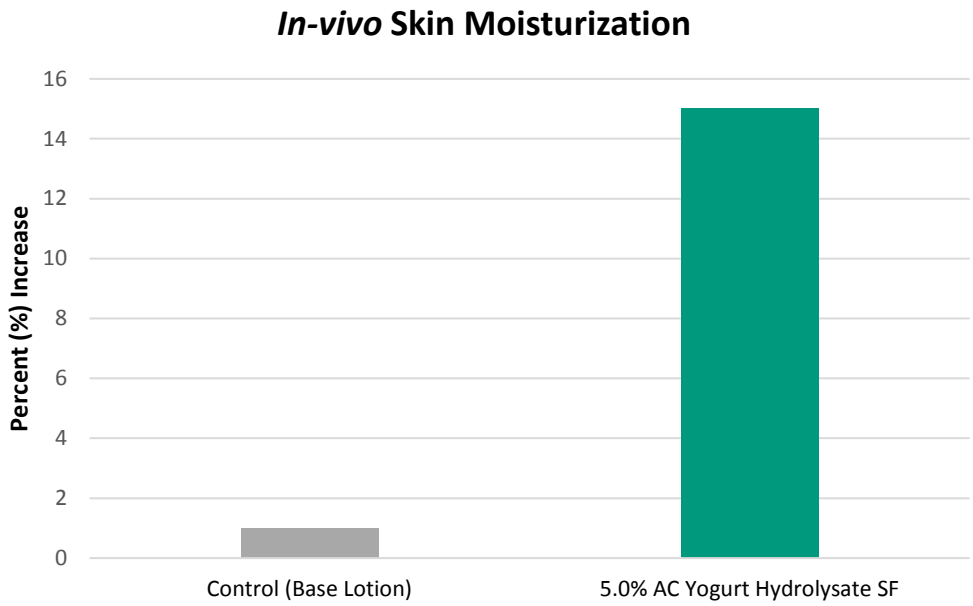

Figure 1. Average moisturization results following application of 5% **AC Yogurt Hydrolysate SF** in Base Lotion vs the Control Base Lotion over a 30 day period.

Discussion

According to the results, 5.0% **AC Yogurt Hydrolysate SF** is capable of increasing skin moisturization levels by 12%. These results indicate that **AC Yogurt Hydrolysate SF** is capable of increasing stratum corneum hydration levels when compared to the impedance values for the control formulation.