



# Moisturization Study

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**Trade Name:** AC Silk Amino Acids PF

**Code:** 16086

**CAS #:** 96690-41-4

**Test Request Form #:** 3667

**Lot #:** 55661P

**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* study was conducted over a period of 30 days to evaluate the moisturization benefits of **AC Silk Amino Acids PF**. Fourteen female volunteers participated in this study. Results indicate that this material is capable of significantly increasing moisturization compared to the controls.

## **Materials**

A. Impedance Meter (9003 DPM Novameter)

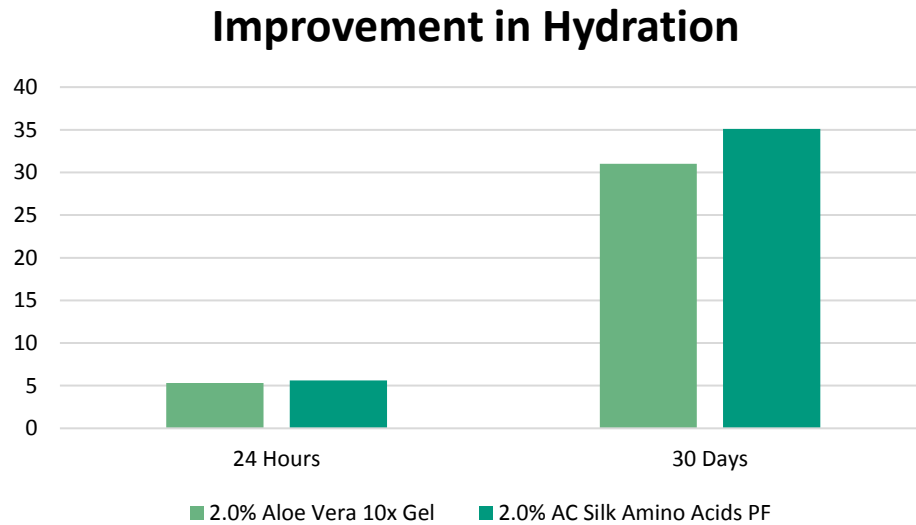
## **Methods**

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. Measurements were taken immediately after application of the test materials, at 24 hours, and after the 30 day period. The test material consisted of 2.0% **AC Silk Amino Acids PF** in water. For added perspective, measurements of an untreated test site and a site treated with deionized water and 2.0% Aloe Vera 10X Gel were also recorded.

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## Results



**Figure 1.** Percent increase in hydration compared to baseline.

## Discussion

As evidenced in a 30-day efficacy study of 2.0% **AC Silk Amino Acids PF** on skin, moisture levels were improved by 12% compared to aloe vera and 35% compared to baseline measurements.