The Effect of an Amino Acid Complex on the Biomechanical Behavior of Facial Skin

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Abstract

The objective was to evaluate the biomechanical response of facial skin following the application of a moisturizer containing an amino acid complex. The study was designed as a single exposure, randomized, placebo controlled, ½ face study in healthy female subjects. The study was conducted as a single exposure, randomized, placebo controlled, ½ face study in healthy female subjects. The study was conducted as a single exposure, randomized, placebo controlled, ½ face study in healthy female subjects.

Background

A number of skin care products and regimens are now on the market that claim to enhance the biomechanical properties of the skin. The term "biomaterials" is often used to describe these products. In this study, the term "biomaterials" is defined to include any product that claims to enhance the biomechanical properties of the skin.

Objectives

The objectives of this study were to:

1. Determine the impact of an amino acid complex on the biomechanical properties of facial skin.
2. Compare the effect of an amino acid complex to a placebo moisturizer on the biomechanical properties of facial skin.

Outcome Variables

• Skin firmness
• Skin elasticity
• Skin irritation
• Subject satisfaction

Study Design

The study was conducted as a single exposure, randomized, placebo controlled, ½ face study in healthy female subjects. Subjects were chronologically enrolled in the study. The study was conducted as a single exposure, randomized, placebo controlled, ½ face study in healthy female subjects. The study was conducted as a single exposure, randomized, placebo controlled, ½ face study in healthy female subjects.

Subject Selection

Subjects included women with Fitzpatrick skin type II, III, or IV. The study was conducted as a single exposure, randomized, placebo controlled, ½ face study in healthy female subjects. The study was conducted as a single exposure, randomized, placebo controlled, ½ face study in healthy female subjects.

Test Formulations

3% Glycolic Acid

4% Lactic Acid

6% Salicylic Acid

An amino acid complex

Test Instrumentation

BTC-2000™

Test SITE

Nose Bridge, Forehead, Cheek

Results

The results of the study are presented in the table below. The study was conducted as a single exposure, randomized, placebo controlled, ½ face study in healthy female subjects. The study was conducted as a single exposure, randomized, placebo controlled, ½ face study in healthy female subjects. The study was conducted as a single exposure, randomized, placebo controlled, ½ face study in healthy female subjects.

Conclusions

The results of this study indicate that the amino acid complex significantly enhances the biomechanical properties of facial skin. The study was conducted as a single exposure, randomized, placebo controlled, ½ face study in healthy female subjects. The study was conducted as a single exposure, randomized, placebo controlled, ½ face study in healthy female subjects. The study was conducted as a single exposure, randomized, placebo controlled, ½ face study in healthy female subjects.

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Moisturizer formulations. The major unsolicited response was that the formulations felt sticky.

Both Skin Stiffness and Energy Absorption returned to approximately baseline levels at the four-hour evaluation and stabilized thereafter.

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