

AC DermaPeptide Toning PF

Assessment of Epithelial Characteristics

Code: 20455PF

INCI Name: Water & Yeast Extract

Suggested use levels: 2.0-5.0%

Abstract

An *in-vivo* study was conducted over a period of 28 days to evaluate the smoothing effect on the epidermis while concurrently decreasing the depth and volume of wrinkles to provide a decrease in the appearance of fine line and wrinkles. 6 F subjects between the ages of 32 and 58 participated in the study.

Methods & Materials

Subjects abstained from using any products on their face prior to the trial. Two areas along the forehead were selected for the trial; area 1 was treated with the variable while area 2 was left untreated for the biological control. The variable material consisted of a non-aqueous emulsion with 2% **AC DermaPeptide Toning PF** and it was applied to area one of the forehead. Following immediate application of the variables, impressions of the test areas were made using silicone molds. Impressions were also taken at post application times of 1 hour and 6 hours. Laser profilimetry with a three dimensional confocal surface measurement system from NanoFocus was used on the molds to quantify the effects of **AC DermaPeptide Toning PF**. The results were compared to the results for the biological control. The molds were kept at a relative humidity between 40 and 60% and at room temperature of approximately 22 degrees Celsius.

Factors that are vital for determining wrinkle improvement include wrinkle depth, volume, complexity and the overall visual impact. The comparisons made between the silicone molds from t=0 to t=1 to t=6 included measurements of wrinkle depths, volume, smoothing and visual impact (complexity). Profilimetry was used to determine epithelial changes and the differences between changes in depth, volume, complexity and smoothness.

Results

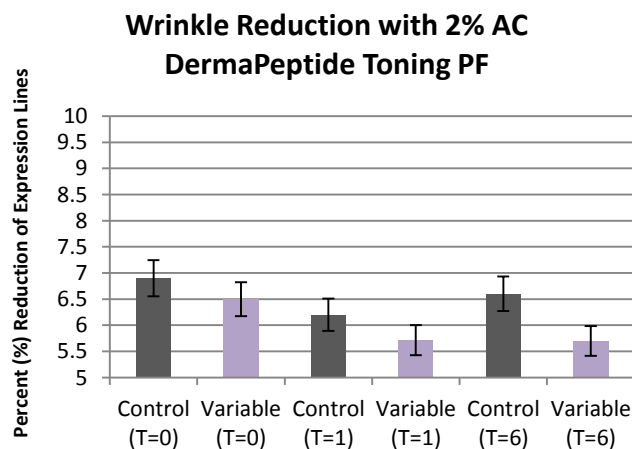


Figure 1. *in-vivo* anti-wrinkle results.

Discussion

The depth and volume of wrinkles directly correlates with their degree of visibility, the deeper the wrinkles are or the larger the volume the more visible the wrinkles become. When comparing the laser profilimetry results of the biological control to the variable, the data for **AC DermaPeptide Toning PF** reveals that the depth, volume and visual impact of the wrinkles decreased over the 6-hour period better than the biological control. The graph indicates that **AC DermaPeptide Toning PF** may decrease the appearance of fine lines and wrinkles when compared to the results for the biological control.