California Skin Research Institute Study Summary

In the summer of 1999, **NuCèlle®**, **Inc**. commissioned the California Skin Research Institute to conduct an independent study of the efficacy of our Mandelic Acid with **Mandelic Marine Complex®** Four Step Skin Conditioning Regimen. The objective of the study was to evaluate the potential of a Mandelic Acid facial care regimen to reduce age-related pigmentary changes, acne blemishes and fine lines/wrinkles after six weeks of treatment.

The final report was entitled "Treatment of Facial Pigmentary Lesions, Acne Lesions and Facial Fine Lines/Wrinkles by a Cosmetic Skin Care Regimen."

This is the summary of the report in its entirety:

California Skin Research Institute (CSRI) in San Diego, California, conducted this study for **NuCèlle®**, **Inc**. in Idaho Falls, Idaho. The study was designed to evaluate the potential of a Mandelic Acid facial care regimen to reduce age related pigmentary changes, acne blemishes, and facial fine lines and wrinkles after six of treatment. The test articles (CSRI Test Articles A-E) were identified by the Sponsor as Mandelic Cleanser, Mandelic Toner, Mandelic Serum, Mandelic Moisturizer with SPF 17, and Mandelic Night Lotion respectively.

Twenty-four female subjects, (30-69 years f age), entered the study on May 20, 1999 and completed the study on July 8, 1999.

On Day 1 of the study, the subjects reported to CSRI, read and signed the consent form, medical questionnaire and other study related documents. The subjects then had a facial examination to determine their acceptability for entrance into the study (i.e. sun freckles, dark pigmentary spots, and/or post-inflammatory hyperpigmentation, mild acne lesions and facial fine lines/wrinkles. After the subjects were accepted into the study, they were given a non-moisturizing glycerin soap bar (Neutrogena) to use for their daily facial cleansing for seven days.

On Day 2, after the seven-day wash out period, the subjects reported to CSRI and had a number of baseline measurements taken. Photographs were taken of the whole face (frontal view or side view) to document the condition of the skin. After the photographs, measurements will be taken using a NOVA DPM 9003 meter. Duplicate measurements were taken in the cheek area on both sides of the face. After the NOVA meter readings were taken, skin surface sampling discs, D-Squames, were placed on the cheek of both sides of the face to collect cells on the surface of the skin. Once all the baseline measurements were completed, the subjects were given the test articles and instructed on how to use them at home (per product instructions).

The subjects were instructed not to use any facial conditioning products other than the test articles during the study. The subjects returned to CSRI in approximately three weeks

(Day 3) for a confirmation of product use. This was accomplished by weighing each product. At the end of six weeks (Day 4), subjects returned to CSRI for a final visit to have D-Squames, NOVA meter readings and to have photographs taken. The subjects returned all products at this time and filled out a questionnaire regarding the product line.

The photographs indicate that the majority of subjects showed an overall improvement in skin texture resulting in a more 'healthy' appearance. The skin appeared smoother and in some cases 'tighter'. There were a few patients who showed improvement in facial hyperpigmentation.

The Nova meter readings for skin moisture indicated that the majority of subjects had an improvement of facial skin moisturization. Eighteen of the twenty-four subjects had an average improvement of 36% (range 1% to 150%). The analysis of the D-Squames indicated a more moist, smoother skin." - taken from CSRI report

Visual Impressions From Photographs

Subject 1: Smoother overall appearance in frontal view. Slight decrease in blemishes and slight reduction in overall pigmentation.

Subject 2: Skin tone a little more even.

Subject 3: Skin tone more even (side view). Overall healthier and tighter look of the skin.

Subject 4: Eye area less puffy (front view). Slight reduction in appearance of fine lines.

Subject 5: Fine lines around eyes and bridge of nose shallower. Skin tone tighter. Some pigment lightened. Reduction in appearance of fine lines.

Subject 6: Redness and splotchy look decreased. Skin looks tighter and skin tone more even.

Subject 7: Slight decrease in pigment in forehead and both sides of face.

Subject 8: Eye area less puffy.

Subject 9: Decreased pigment (side view). Skin tone looks more even and tighter.

Subject 10: Skin looks healthier and tone more even.

Subject 11: Skin appears tighter and smoother. Slight decrease in appearance of fine lines.

Subject 12: Skin appears smoother. Healthier overall tone.

Subject 13: Slight decrease in pigment (left side)

- Subject 14: Slight decrease in redness and more even skin tone.
- Subject 15: Fine lines around mouth decreased. Decreased pigment (side view)
- Subject 16: Fine lines around mouth decreased. Skin appears tighter.
- Subject 17: Skin looks smoother and tighter. Slight decrease in blemishes on neck.
- Subject 18: Decreased pigment on nose. Skin tone more even. Slight decrease in blemishes.
- Subject 19: Decreased fine lines on chin. Slight decrease in blemishes.
- Subject 20: Decreased pigment (side view). Slight decrease in fine lines around mouth area. Smoother overall appearance.
- Subject 21: Eye area looks tighter. Slight decrease in pigment (side view)
- Subject 22: Decreased redness in cheeks. Skin tone looks more even and smoother.
- Subject 23: Skin looks tighter. Decreased redness in cheek area.
- Subject 24: Slight decrease in fine lines (side view). Skin looks tighter and smoother.