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GLOBAL SKIN HEALTH

COSMETIC BENEFIT OF A BIOMIMETIC, NIACINAMIDE-CONTAINING MOISTURISING CREAM ON BARRIER FUNCTION AND HYDRATION – A PROOF OF CONCEPT STUDY.

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INTRODUCTION: A proof-of-concept evaluator-blind study was designed to evaluate the cosmetic benefit of a biomimetic, niacinamide-containing moisturising cream for the first time in subjects with dry skin.

OBJECTIVE: To assess skin barrier function on the forearm after 4 weeks of twice daily test product use versus no treatment (standard cleanser only).

MATERIALS and METHODS: Healthy adult women were randomised to use two treatments, one for the left side of the body and one for the right, from three options: the test cream, a positive control or no treatment. All subjects used the standard cleanser. Treatments were applied twice daily for 4 weeks to the face and forearms. Instrumental and clinical skin assessments were performed by trained technicians. This study involved a physical challenge of sequential tape stripping and a 5-day no-treatment ('regression') period at the end of the 4 weeks.

RESULTS: In this study (n=65: ITT), the test cream significantly decreased trans-epidermal water loss (TEWL) values on the forearm (difference = -1.44, p<0.0001), and the facial cheek area (difference = -1.24, p=0.0230), in adjusted mean change from baseline versus no treatment at 4 weeks. Skin Corneometer values increased throughout the treatment phase. Improvements were partially retained during a subsequent 5-day period of no treatment. Increases in TEWL values on tape stripped skin at 4 weeks were significantly lower after using the test cream versus no treatment (forearm (12 discs): difference = -1.99, p=0.0359; face (9 discs): difference = -4.48, p=0.0197). No treatment-related serious or severe adverse events were reported.





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CONCLUSION: Twice daily application of the test cream over 4 weeks to the face and forearm had beneficial effects on skin barrier function and moisturisation, versus no treatment. This study provides evidence for proof-of-concept and highlights the cosmetic benefit of the biomimetic lamellar cream. The study products were generally well tolerated.



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