

GLOBAL SKIN HEALTH

## COSMETIC BENEFIT OF A BIOMIMETIC, NIACINAMIDE-CONTAINING ANTI-AGEING MOISTURISING CREAM – A PROOF OF CONCEPT STUDY

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INTRODUCTION: A proof-of-concept evaluator-blind study was designed to evaluate the potential cosmetic benefit of a biomimetic, niacinamide-containing moisturising cream in subjects with visible signs of ageing.

OBJECTIVE: The primary objective was evaluation of wrinkle dimensions (change from baseline) of test cream versus no treatment on the Periocular / Crow's Feet Area.

MATERIALS AND METHODS: Healthy adult women were randomised to use two treatments, one for the left side of the face and one for the right, from three options: the test cream, a positive control or no treatment (use of standard cleanser only). Treatments were applied twice daily for 4 weeks to the face. Instrumental and clinical assessments were performed by trained technicians. Independent lay graders were asked to grade the skin texture of subjects from high-resolution photographs.

RESULTS: In this study (n=70: ITT) subjects with visible signs of ageing), there was a favourable trend in the change from baseline of a skin roughness parameter, Ra, for the test cream compared to no treatment (difference = -1.07, p=0.0638) at 4 weeks. There were also statistically significant (p<0.05) improvements in the Fitzpatrick wrinkle score versus no treatment (difference = -0.28), decreases in TEWL (difference = -2.10) and increased Corneometer values (difference = 5.90) and Cutometer R5 values (difference = 0.04). Grading of high-resolution images failed to detect an improvement in skin texture (defined as pores, smoothness, and unevenness) for the test cream and the positive control versus no treatment. No treatment-related serious or severe adverse events were reported.

CONCLUSIONS: Twice daily application of the test cream over 4 weeks had beneficial











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effects on skin barrier function, moisturisation, wrinkle dimensions and elasticity compared to no treatment. This study therefore provides evidence for proof-of-concept and highlights the cosmetic benefit of the biomimetic lamellar cream formulation. The study products were generally well tolerated.



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