

# Cosactive NMF

Mimetic "Natural Moisturising Factor"

## Improving the effectiveness of an O/W cream with 5% Cosactive NMF

**1. Introduction** Skin hydration is a key factor for healthy skin and plays an essential role in cosmetic skin care. Cosactive NMF (Natural Moisturising Factor) is a blend of moisturising ingredients designed to effectively hydrate the skin and strengthen its barrier function. The aim of this study is to the efficacy of product 4-24-151-3 with 5% Cosactive NMF compared to product 4-24-151-4, which does not contain Cosactive NMF.

**2. Methods** The study was carried out by instrumental skin moisture measurement using a Corneometer® CM850/825.

- **Test groups:** 20 test subjects per product
- **Measurement times:** Before application (T0), 30 minutes after application (T1), 24 hours after application (T2)
- **Measurement parameters:** Hydration level of the skin
- **Application quantity:** 2.0 mg/cm<sup>2</sup> applied to the skin

### 3. Results

| Product                            | Average Moisture increase after 30 min (%) | Average Moisture increase after 24 hours (%) |
|------------------------------------|--|--|
| 4-24-151-4 (without Cosactive NMF) | 41%  | 12%  |
| 4-24-151-3 (with 5% Cosactive NMF) | 58%  | 15%  |

**4. Discussion** The results show that the product 4-24-151-3 with Cosactive NMF causes a significantly higher skin hydration than the product 4-24-151-4 without this active ingredient. Particularly in the first 30 minutes after application, the increase in hydration with Cosactive NMF is 17 percentage points higher than with the comparison product. Even after 24 hours there is an advantage of 3 percentage points.

These data confirm the moisturising properties of Cosactive NMF and its effectiveness as a skin moisturiser. The combination of humectants and natural moisturising factors appears to sustainably support water retention in the skin.

**5. Conclusion** The study clearly shows that Cosactive NMF is a highly effective moisturising complex. The product 4-24-151-3 with 5% Cosactive NMF improves skin hydration by 41% after 30 minutes and by 15% after 24 hours, while the product without this active ingredient only achieves an increase of 12% after 24 hours.

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