



Vitamin F forte

Essential fatty acids
nourishing hair and skin

Vitamin F forte – Essential fatty acids nourishing hair and skin

Vitamin F forte contains natural polyunsaturated essential free fatty acids, with a particularly high content of linoleic acid. Vitamin F forte nurtures, protects and acts as a skin conditioner. It is particularly suitable for the treatment of dry, stressed and sensitive skin, potently supporting the skin in re-building and maintaining its natural healthy structure and functionality. Vitamin F forte also strongly acts as a hair conditioner and reduces hair breakage.

in vivo	ex vivo	in vitro
<input checked="" type="checkbox"/> skin	<input checked="" type="checkbox"/> hair	<input type="checkbox"/>

Dosage: 0.5–3.0% skincare
1.0% haircare

pH range: 3.0–10.0

INCI Name:
Linoleic Acid, Linolenic Acid

Skin benefits

- High-potency essential fatty acids for the treatment of dry skin
- Repairs and maintains the skin's natural barrier function
- Makes skin smoother and healthier
- COSMOS approved

Hair benefits

- Effectively counteracts hair weathering and aging
- Improves hair combability and condition
- Protects hair against heat and reduces hair breakage
- COSMOS approved

Applications

- Moisturizing
- Barrier maintenance and repair
- Hair conditioning and protection

Marketing opportunities – skin*

- Strengthens the skin's quality and barrier function
- For protective strengthening
- Deeply nourishes and maintains the skin's natural balance
- Increases the skin's resistance to external aggressors
- Contributes to regaining the skin's healthy water content

Marketing opportunities – hair*

- Reduces hair fall due to breakage
- Revives the natural manageability of dry, damaged and aged hair
- Provides heat protection
- Helps strengthen and nourish hair
- Smoothes the hair scales

* This list is for illustrative purposes only. Make sure to comply with relevant legislation.

Vitamin F forte – Selected efficacy studies

In vivo assays (human volunteers)

Twice daily, test products were applied to the inner side of the forearms; 3% Vitamin F forte in an O/W cream was tested against a placebo. The test panel consisted of 20 volunteers with dry atopic skin.

Reduction of Transepidermal Water Loss (TEWL)

The test product containing Vitamin F forte was found to strongly decrease and normalize their elevated TEWL values after 4 weeks of treatment (Fig. 1).

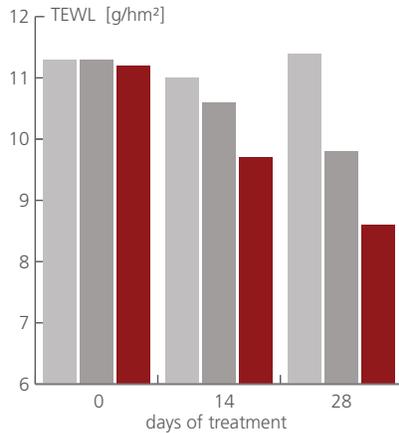


Fig. 1: Reduction of TEWL

Increase in skin smoothness

After 4 weeks of treatment, use of the test product containing Vitamin F forte led to a pronounced increase in skin smoothness (Fig. 2).

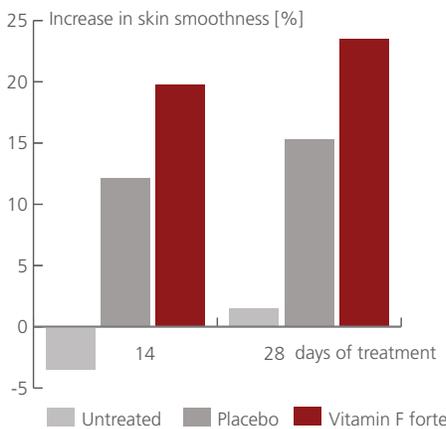


Fig. 2: Increase in skin smoothness after 4 weeks

In vitro assays (hair)

Hair conditioning

Measuring the force (N) needed to pull a comb through tresses of bleached hair (Fig. 4) revealed that the treatment with Vitamin F forte led to a significant improvement of combability and hair condition as compared to untreated hair and hair treated with placebo (Fig. 3).

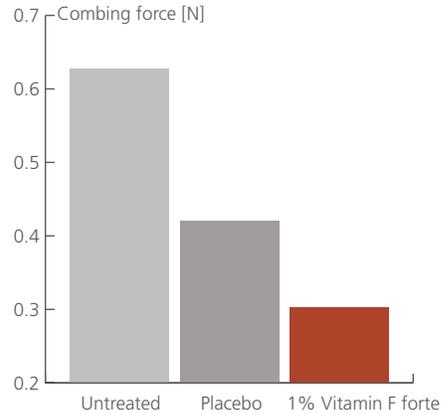


Fig. 3: Results of the wet combability study (N)

Hair protection – breakage

Treatment with Vitamin F forte clearly reduces hair breakage after damaging hair by hot flat ironing and combing the hair tresses approximately 500 times (Fig. 4).

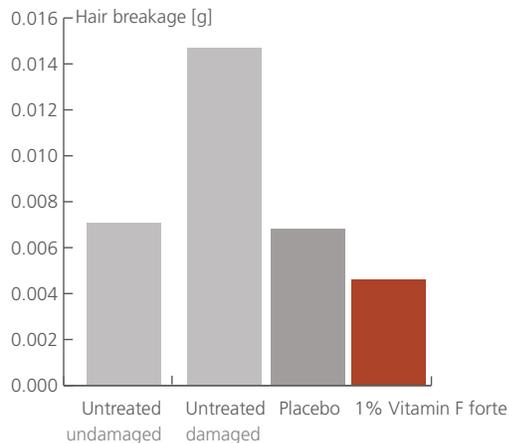


Fig. 4: Hair breakage results (grams)

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