

Native Collagen Serum Mousse

Summary of Scientific Evidence

**MedSkin
Solutions**

Dr. Suwelack



Agenda

Summary of Scientific Evidence Native Collagen Spray

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- ◊ Active Ingredients
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Native Collagen Serum Mousse

At a Glance

High- effective serum mousse for **intensive and sustainable regeneration**. It supports natural regeneration and skin vitality

Native Collagen Serum Mousse has an **intensive moisturizing** effect and keeps the skin **smooth and supple**. The **skin barrier** function is strengthened, **fine lines are softened**, and the skin **harmonized** and **regenerated**.

Key Facts

- ✓ 100% highly pure native, soluble collagen
- ✓ Active Ingredients: Soluble Collagen, Niacinamide
- ✓ pH Value: 4.4 - 4.9
- ✓ Free from mineral oils, silicones & colorants
- ✓ Leave-on Product for home & professional Use

INCI: Aqua (Water), Glycerin, Squalane, Vitis Vinifera (Grape) Seed Oil, Carbon Dioxide, Niacinamide, Tocopheryl Acetate, Sodium Lactate, Soluble Collagen, Leuconostoc / Radish Root Ferment Filtrate, Monosodium Citrate, Myristyl Glucoside, Sodium Levulinate, P-Anisic Acid, Sodium Hydroxide, Acacia Senegal Gum, Xanthan Gum, Lauryl Glucoside, Polyglyceryl-6 Laurate, Lactic Acid

* Leuconostoc / Radish Root Ferment Filtrate is a natural preservative, not on the black list of the EU regulation (KVO).



It's all about Skin



Introduction

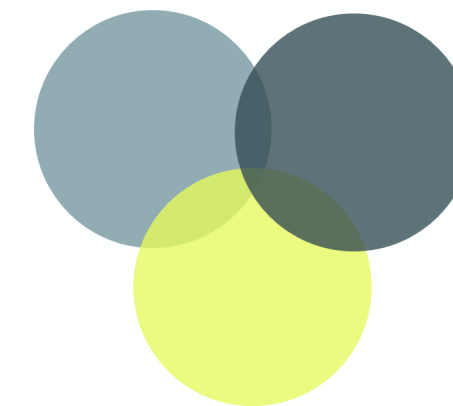
The ability of the skin to regenerate itself is of paramount importance to survival and health. With age and due to stress factors skin moisture is decreased, cell function is reduced.

The skin is constantly exposed to environmental factors such as UV radiation and toxic chemicals. This contributes to dehydration of the skin, destroys skin barrier function and in worse case ends up in irritated and damaged skin. This results increased dryness and accentuation of fine lines, wrinkles and flakiness and even redness. Dark spots can appear.

Additionally, skin ages by progressive deterioration of physiological functions. As part of the biological skin aging process, the stem cells lose their vitality. Some stem cells in the basal layer of the epidermis produce all the keratinocytes that differentiate to the stratum corneum and are renewed every four weeks. In older skin, the epidermal stem cells are less active and lower in number, leading to wrinkles and longer renewal time of the epidermis. The skin looks old, tired and dull!

Regenerating skin needs an extra dose of moisture and smoothing active ingredients in a well-dosed ratio. By providing lasting moisture, enhancing lipids and creating an acidic environment, protective skin functions are enhanced and the barrier is strengthened. For targeted and effective renewal of the skin, the vitality of skin cells should be protected and stimulated. The natural regenerating processes are supported in this way.





Ingredients explained in short

Ingredient	Function in cosmetic products	What that means
Squalene	Skin conditioning	Adds moisture and conditions skin
Glycerin	Humectant	Preserves skin moisture
Leuconostoc/ Radisch Root Ferment Filtrate	Skin conditioning	Moisturizes and conditions skin
Soluble Collagen	Humectant	Preserves skin moisture
Monosodium Citrate	Buffer	Helps adjust the acid/ base balance of cosmetics
Grape seed oil	Skin conditioning	Lubricant on the skin surface, which gives the skin a soft and smooth appearance
Niacinamide	Skin conditioning	Reduces flaking and restoring suppleness
Lauryl and myristyl Glucoside	Surfactant	Mixing oils and ingredients
Polyglyceryl-6-laurate	Emulsifier	Water-in-oil emulsifier
Sodium lactate	Buffering agent	Stabelizes pH
Tocopheryl Acetate	Anti-oxidant	Neutralized free radicals
Acacia Senegal Gum/Xanthan gum	Stabilizer	Prevents ingredients from separating

Hero active ingredients

**Soluble
Native Collagen
Molecules**

**Niacinamide
(Vitamin B₃)**

Soluble Native Collagen Molecules

Soluble native collagen molecules have an extremely high water-binding capacity and form a moisture net on the skin, which **reduces the transepidermal water loss (TEWL)**. Soluble Native Collagen Molecules infuse the skin with moisture. This leads to **increased hydration** of the stratum corneum, which lasts for hours.

The use of native collagen **improves skin smoothness** and gives the skin a pleasant feeling. Skin is **plumped and firmed** and water is retained in the Stratum Corneum. It **provides instant moisture** to the skin.^{1,2}

Niacinamide

Renewal of the skin is controlled by dermal stem cells. Their activity decreases with age resulting in a visible aging of the skin.

Niacinamide (Vitamin B3) is an essential coenzyme in the energy production in cells and also has a central role in DNA repair. In addition, niacinamide stimulates the production of lipids and ceramide, and it increases key proteins involved in the skin barrier: involucrin, filaggrin and keratin.¹ It strengthens the skin barrier and reduces transepidermal water loss (TEWL).¹

Niacinamide protects the skin from oxidative stress and from protein damage. It has been described to reduce hyperpigmentation and light induced redness.² Studies have shown that niacinamide prevents pigments from surfacing on the skin, by inhibiting melanosomes transfer.²

Niacinamide also has been shown to reduce sebum production and therefore supports with reducing skin pore size.³

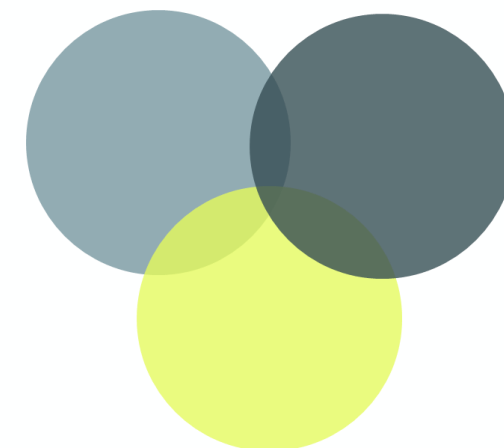
In-vitro data show that niacinamide stimulates collagen synthesis in human dermal fibroblasts and is a differentiation marker in normal human epidermal keratinocytes.⁴



Mode of Action



Mode of Action



Skin Insight



- With age and due to stress factors skin moisture is decreased, cell function is reduced.
- This results increased dryness and accentuation of fine lines, wrinkles and flakiness and even redness. Dark spots can appear.
- **Application** of Serum Mousse on the skin and **activation & penetration** of serum ingredients.



Collagen molecules



Niacinamide



Moisture



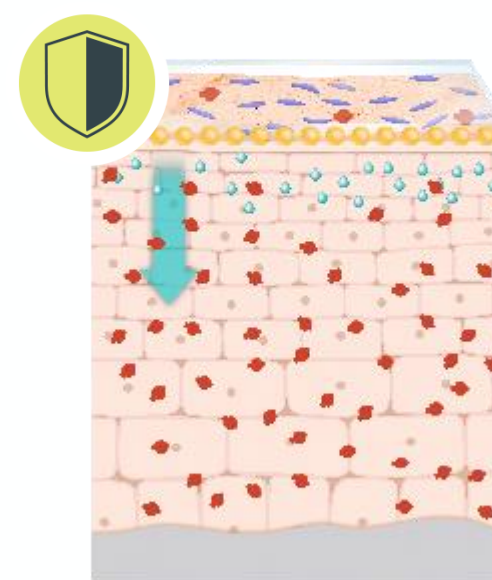
Fatty acids and ceramide

Intense hydration



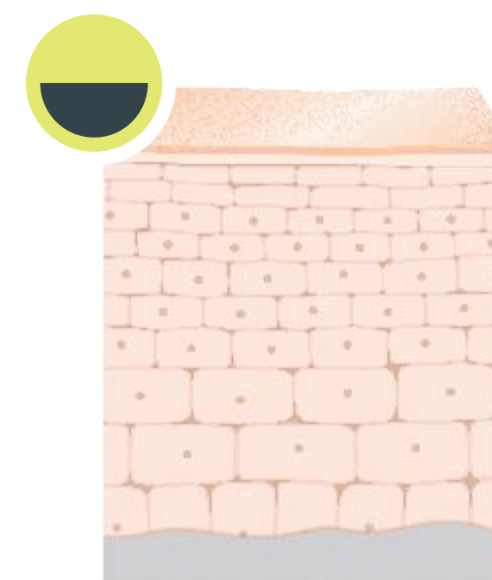
- Soluble native collagen molecules infuse the skin with moisture and form a protective net.
- **Provides instant moisture** to the skin.
- Skin is **plumped and firmed**, and water is retained in the stratum corneum.
- **Smooths and soothes** skin surface.

Increased skin barrier function



- High number of soluble native collagen molecules remain on skin surface and infuse surface with moisture.
- Niacinamide stimulates ceramide and fatty acids in stratum corneum.
- **Increased lipid barrier and skin barrier function:**
 - Boosted hydration
 - Reduced TEWL

Regeneration



- Soluble native collagen molecules ensure deeply hydrated skin.
- Niacinamide lowers sebum excretion and can help reduce pore size and pigmentation.
- Niacinamide protects cell activity and increases cell vitality, stimulates collagen synthesis.
- **Regenerated skin:**
 - Smoothed lines and wrinkles
 - Harmonized skin tone, even complexion

Scientific Studies



Scientific Studies



- Scientific Literature on Niacinamide
- Data on MDS collagen



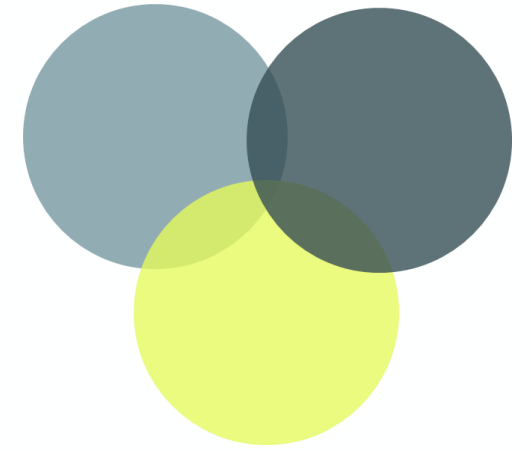
Dermatological Questionnaire



Ophthalmological Examination



Patch Test



Niacinamide strengthens Skin Barrier and increases Lipid Content

Study:

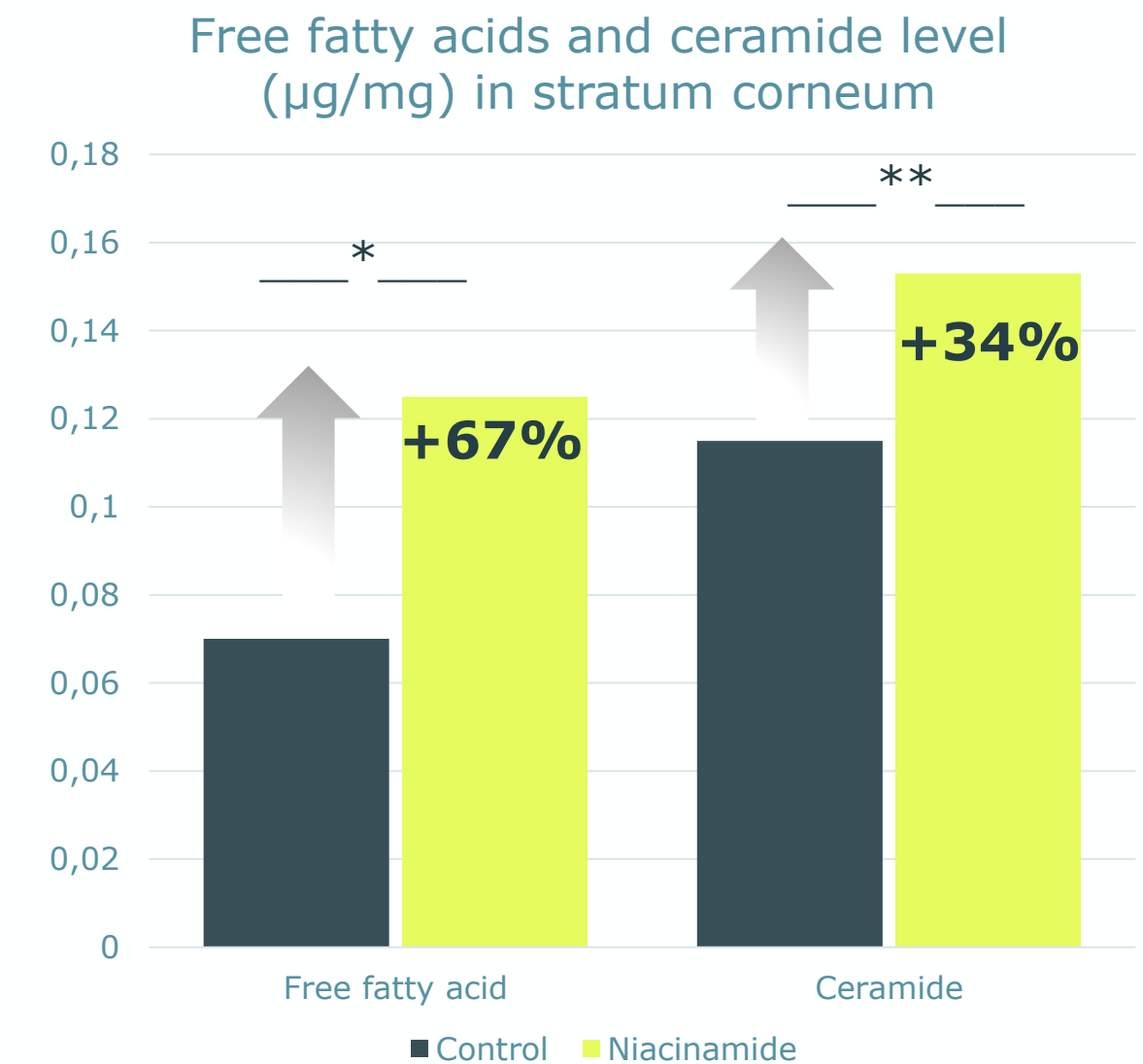
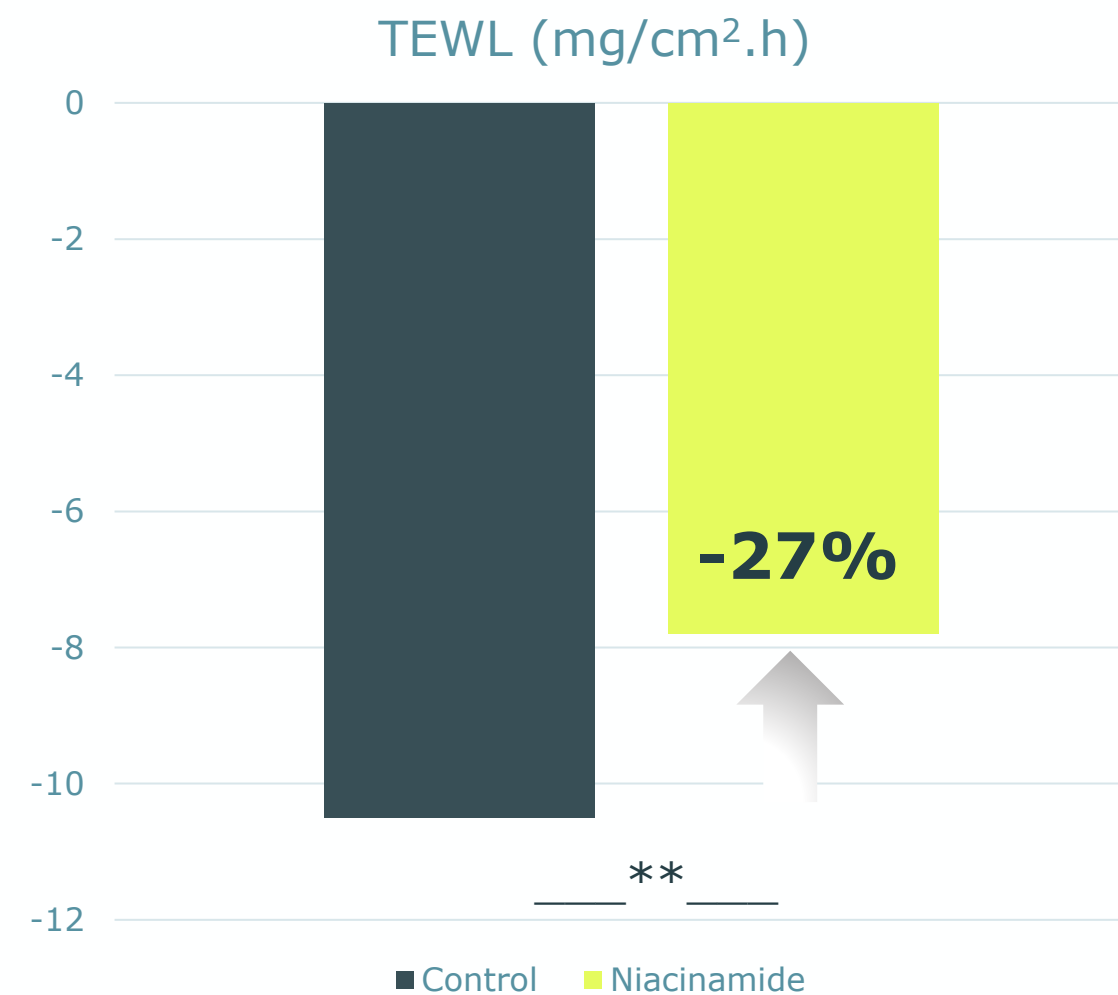
- 12 healthy male volunteers with dry skin
- Twice daily 2% niacinamide for 4 weeks
- Measurement of barrier function (TEWL)
- Measurement of lipids in stratum corneum by tape stripping

Results:

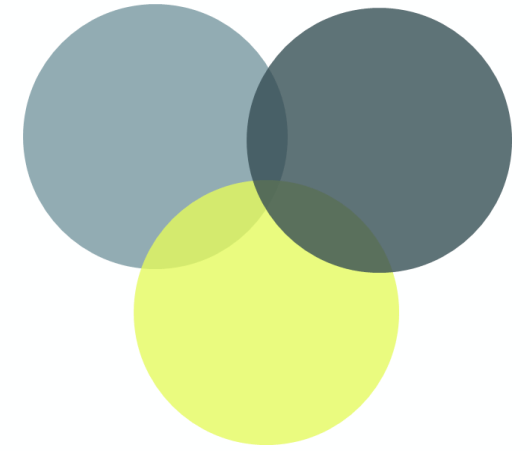
- TEWL is reduced by 27%

What that means:

- Skin barrier is strengthened
- Lipids are increased



*p<0.05
**p<0.01



Niacinamide prevents Pigments from appearing on the Skin

Study:

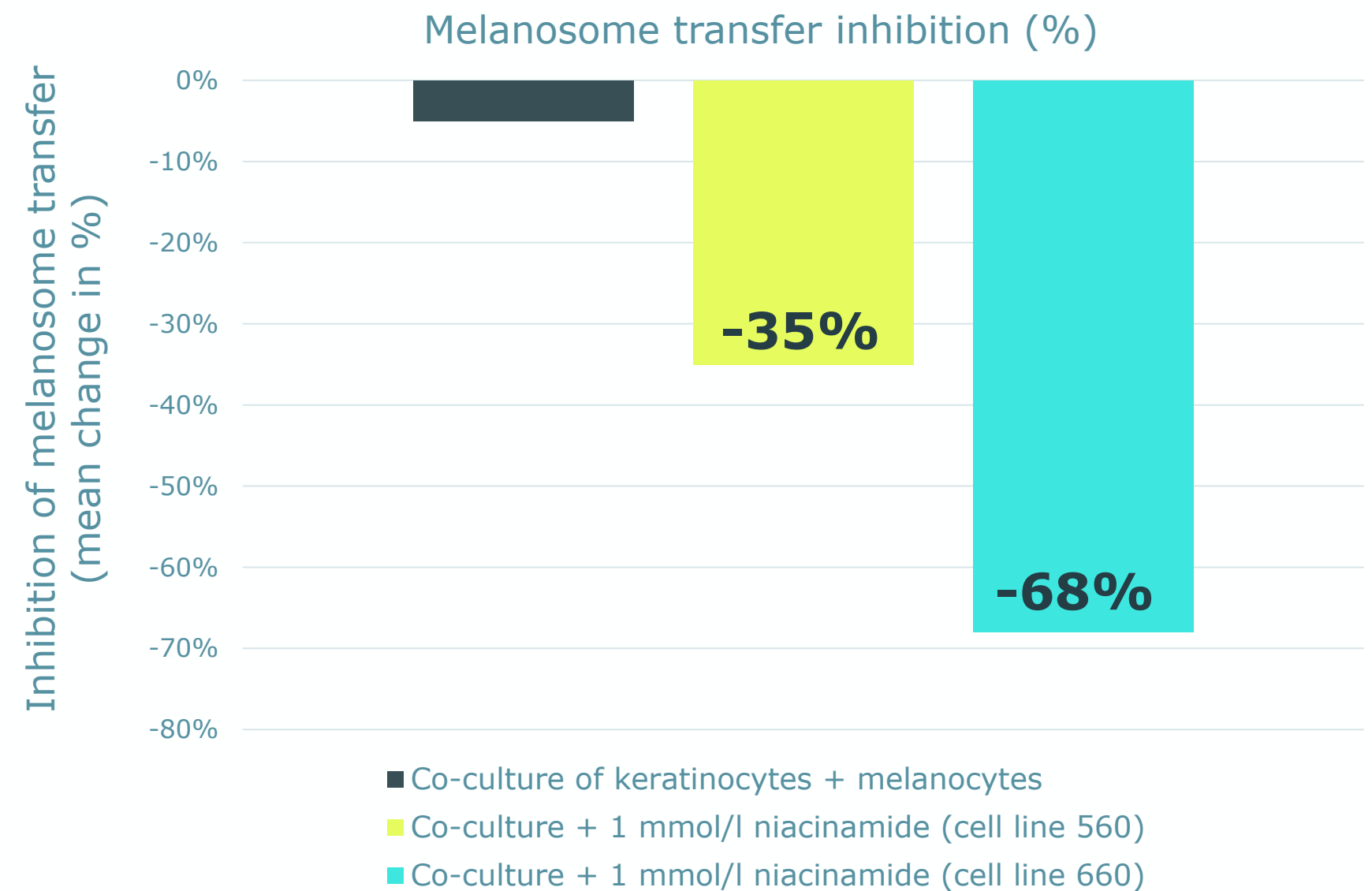
- In-vitro study
- Co-cultures of fluorescence labeled melanocytes/melanosomes and keratinocytes were supplemented with niacinamide (1 mmol/l)
- Measurement after 7 days of keratinocytes carrying fluorescent melanosomes
- Measurement of lipids in stratum corneum by tape stripping

Results:

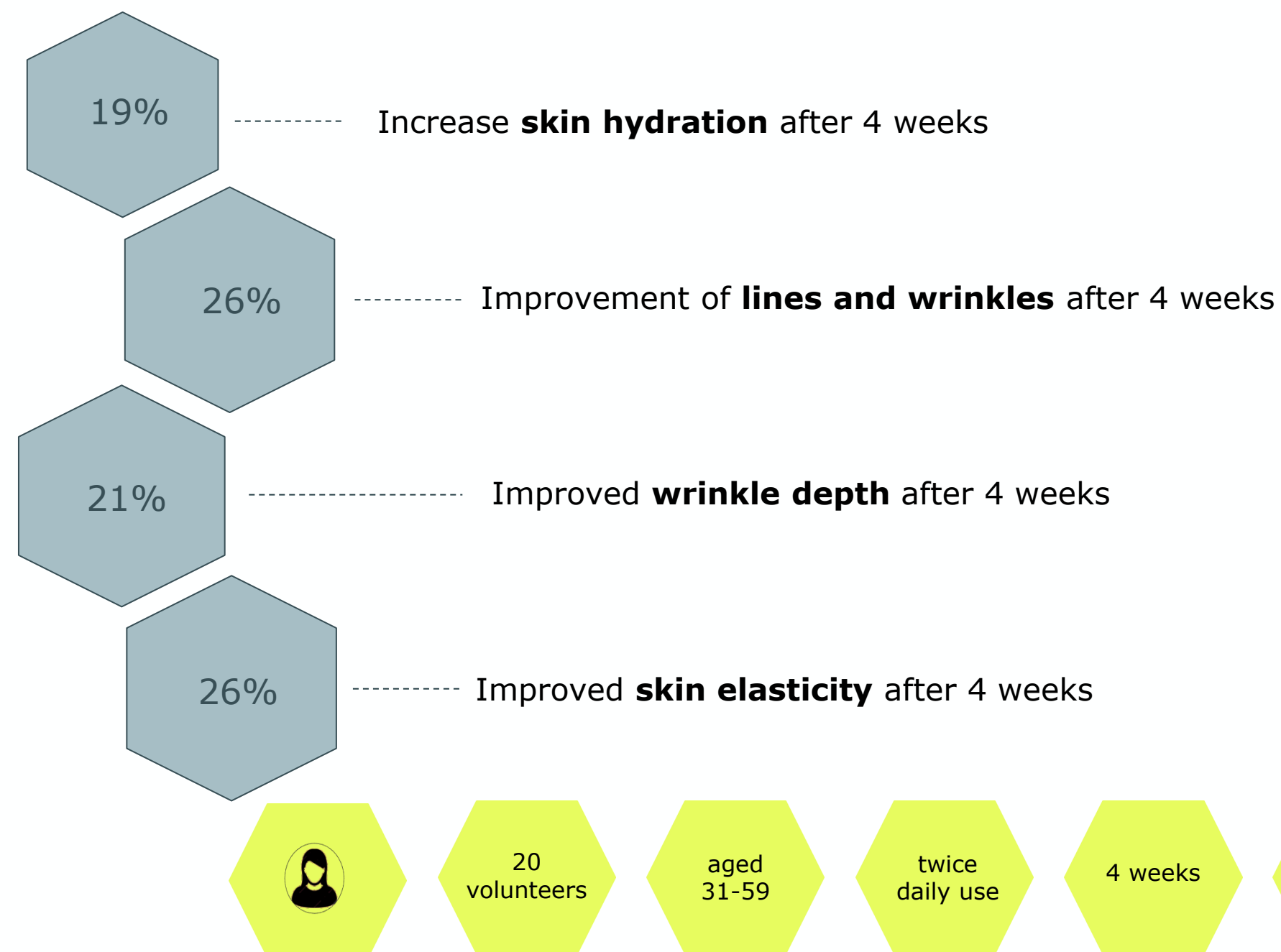
- Niacinamide inhibits melanosomes transfer by up to 68%

What that means:

- Niacinamide prevents pigments from appearing



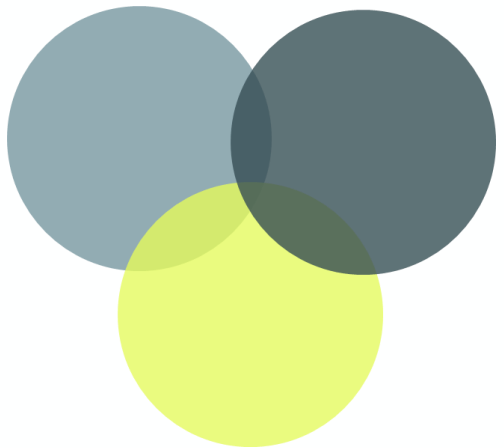
MedSkin Data on Native Collagen Molecules – Based on the Native Collagen Serum *Spray*



Study: Clinical-dermatological application study in 20 volunteers with application of Native Collagen Serum Spray twice a day for a period of four weeks, Dermatest 2013.

- **MedSkin study results** of the Native Collagen Serum Spray **can also be used for the new Native Collagen Serum Mousse** due to similar ingredient of Native Collagen Molecules.

Dermatologic Evaluation Questionnaire - Native Collagen Serum Mousse



["Easy to apply and beautifully rich"]

["Pleasantly cool"]

["Super compatible, very pleasant on the skin, immediate tightening"]

["My skin feels very soft after application"]

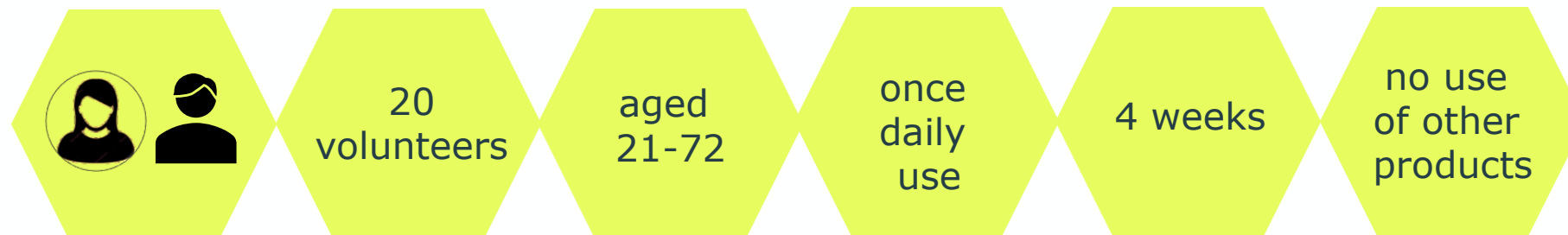
["Refreshing"]

["I have poor sleep quality which causes my eyelids to swell a bit in the morning, this product helps me reduce that swelling"]





Ophthalmological Examination



Study title: Ophthalmological test

Study centre: Dermatest, Germany, 2022

Protocol: No use of topical preparations on the test areas (7 days before until end of test).

Product applied once daily for 4 weeks;

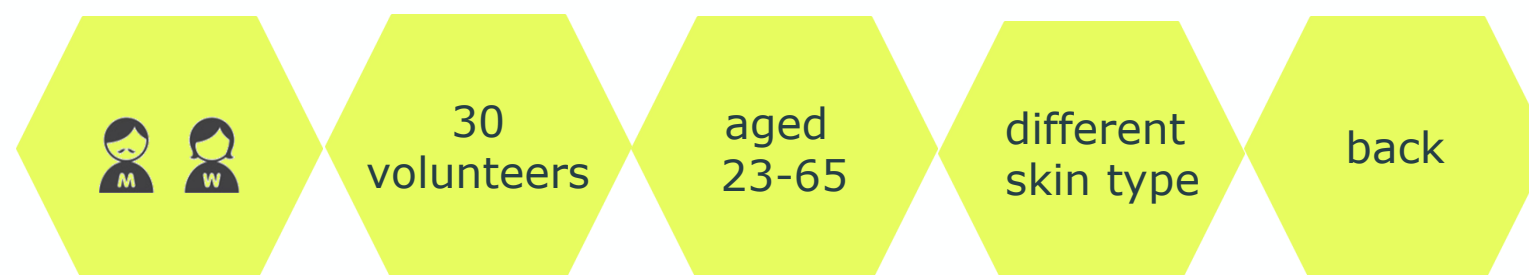
Examination of the eye mucosal and dermal tolerability by an ophthalmologist



Result: From the clinical-dermatological and ophthalmological perspective no relevant skin reactions arose, the product was tolerated very well. Neither intolerance reactions in terms of skin irritation nor allergic reactions (contact dermatitis) were detected.

Accordingly, from the dermatological point of view, the tested product Native Collagen Serum Mousse exhibits no high potential for skin irritation and sensitization, when used as intended.

Patch Test



Study title: Test for primary skin irritation and hypersensitivity of human subjects after single application

Study centre: Dermatest, Germany, 2022

Protocol: Application of the product for 24, 48 and 72 hours under occlusion
Evaluation of the test areas 30 min after completion of the occlusion

Result: No evidence of any skin disorder was detected in the test area of any of the 30 panelists after conducting patch testing for 24, 48 and 72 hours according to the internationally recognized guidelines of ICDRG (International Contact Dermatitis Research Group).

It can be concluded that the use of the product will not cause any unwanted skin reactions due to an irritating effect.



Thank you for your attention



Please scan for detailed product information such as application videos or modes of action

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