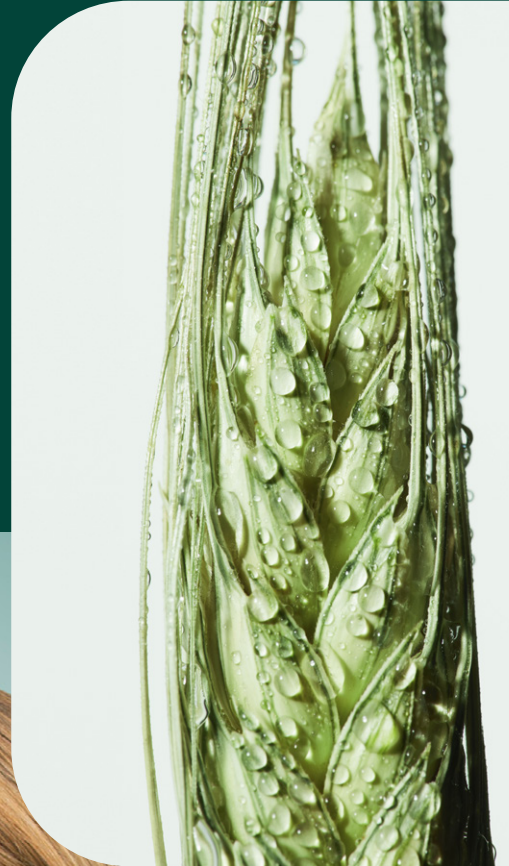


DIETARY SUPPLEMENTS | ACTIVE INGREDIENT

Ceramosides™

Youthful skin & stronger hair from within

Fast acting & low dose wheat phytoceramides

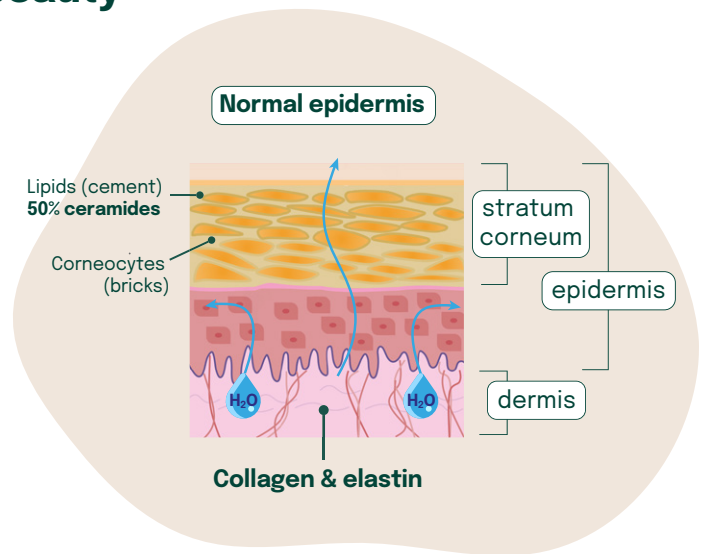


SEPPIC
SCIENCE THAT CARES

Ceramides: key components of skin and hair beauty

Skin

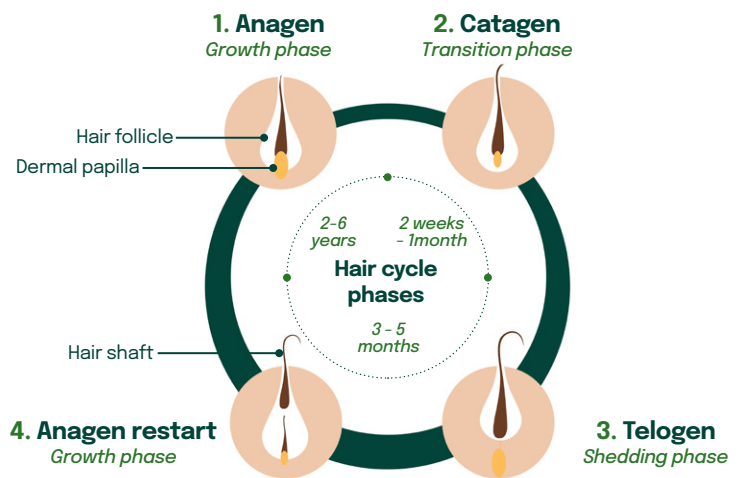
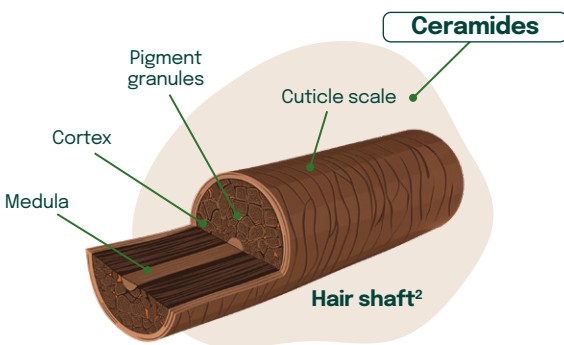
Skin epidermis is constituted of cells looking like “bricks” called corneocytes. **Ceramides are the major constituent of the cement between these bricks** and play a key role in the barrier function of the skin, preventing the formation of cracks.



Hair

Ceramides also act as a **barrier for hair cuticle protection**.¹

Specifically, they play a critical role in **strengthening the hair** by ensuring the **cohesion of hair cells**, thus, reducing breakage.



Changes induced by menopause³⁻⁷

The hormonal changes induced by menopause have strong repercussions on women’s skin, in particular on **ceramides quantity** and **negatively impact the hair cycle**.

Skin

Dryness

Wrinkles

Waterloss

Cracks

Hair

Altered hair quality

Reduced hair density

Reduced hair growth

Ceramosides™

Youthful skin & stronger hair from within

Ceramosides™ is a **low-dose, fast-acting** solution designed to help consumers feel confident about the beauty of their **skin and hair** from within. It is particularly effective in reducing the appearance of **wrinkles** and improving **skin hydration**. Ceramosides™ also brings a comprehensive response to major **hair concerns**, such as **hair loss**.

- ⦿ **Anti-collagenase effect:**
help to preserve the collagen network integrity
- ⦿ **Anti-elastase effect:**
help to preserve skin elastic fiber network
- ⦿ **Anti-radical effect:**
help to fight oxidative stress

Premium characteristics

- ⦿ **Unique gluten-free ingredient derived from wheat:**
 - » Concentrated in **phytoceramides**
 - » Rich in **digalactosyl diglycerides (DGDG)**, a natural booster of ceramides' absorption
- ⦿ **Scientifically proven benefits:**
 - » 3 clinical studies on skin benefits
 - » 2 clinical studies on hair benefits
 - » 3 *in vitro* studies
- ⦿ **Low daily dose:**
 - » 30 mg Ceramosides™ Powder 70 mg Ceramosides™ Oil
- ⦿ **Quick efficacy:**
 - » Skin benefits: first results in 2 weeks
 - » Hair benefits: first results in 2 months
- ⦿ **Standardized extract:**

Grade	Light brown OIL	Hydro-dispersible POWDER
Total Phytoceramides	≥15%	≥50%
Digalactosyl diglycerides	≥15%	≥50%

5
Clinical studies

30 mg powder
70 mg oil
Recommended daily dose

DUAL ACTION
Hair and skin at the same doses

FINALIST
NUTRA
INGREDIENTS
AWARDS 2024



DAILY DOSE
30 mg POWDER
or
70 mg OIL

TABLETS CAPSULES SOFTGELS
DRINK GUMMIES STICKS

Clinically studied action on skin^{1,2}

NEW



60 healthy women
72 healthy women
 with dry skin & signs of aging
 from 30 to 60 years old



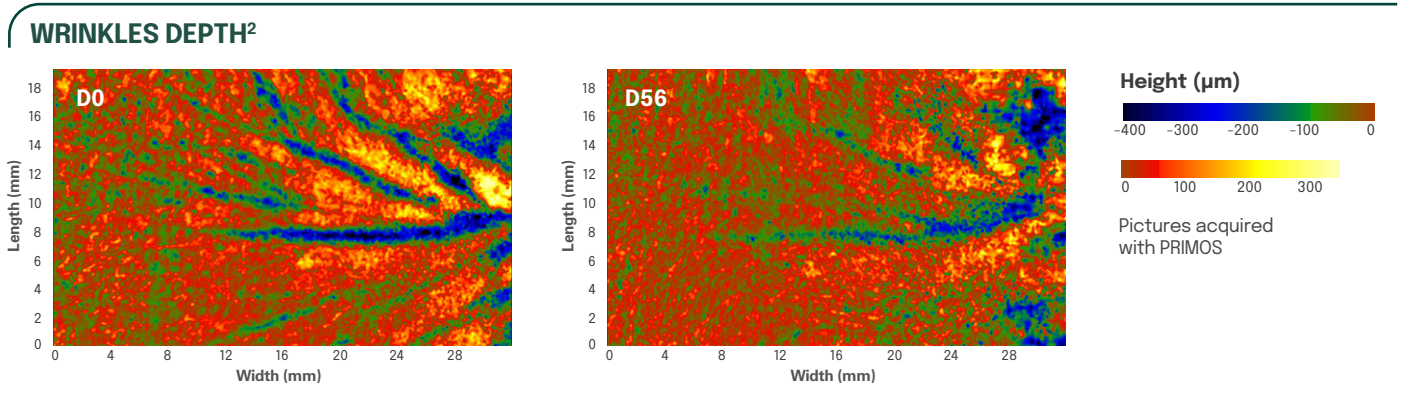
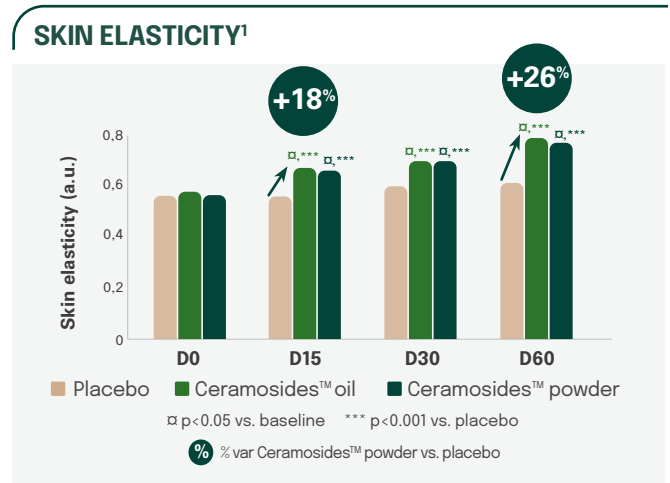
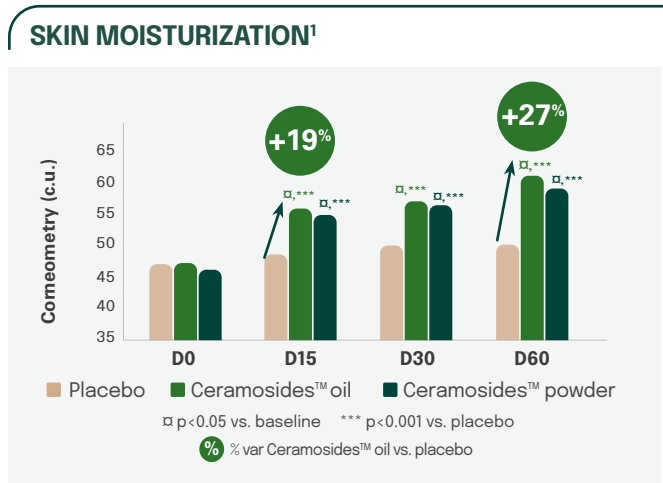
**Powder (30 mg)
 or oil (70 mg)
 Ceramosides™
 or Placebo**



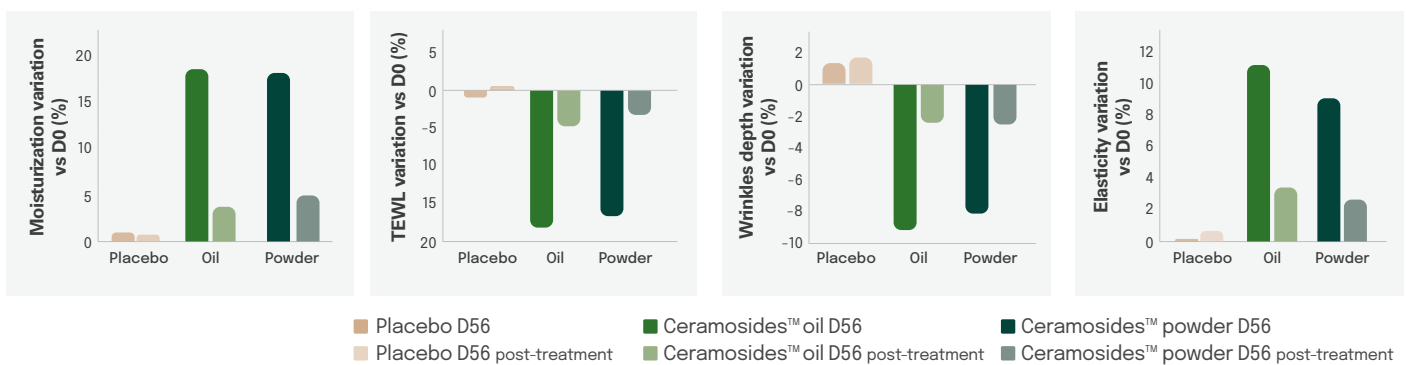
60 days
56 days
 Evaluation

Ceramosides™ helps enhance skin hydration and prevent aging signs

In 2 gold standard clinical studies, Ceramosides™ oil and powder significantly improve skin hydration and barrier function, skin elasticity and wrinkles depth, with first significant results vs. placebo after only 2 weeks of supplementation.



CERAMOSIDES™ POST-INTAKE EFFICACY²
 56 days after the cessation of Ceramosides™, the beneficial effects on skin beauty significantly decreased but did not disappear, indicating that the improvements observed during the trial can be attributed to the action of Ceramosides™.



1. Bizot, V. et al. *Cosmetics* 2017, 4, 37. 2. Kern, C. et al. *Journal of Cosmetic Dermatology*. 2024;23:1320-1330.

Clinically demonstrated benefits on hair^{1,2}

NEW



66 healthy women
99 healthy women
 with acute excessive
 hair shedding from
 18 to 65 years old



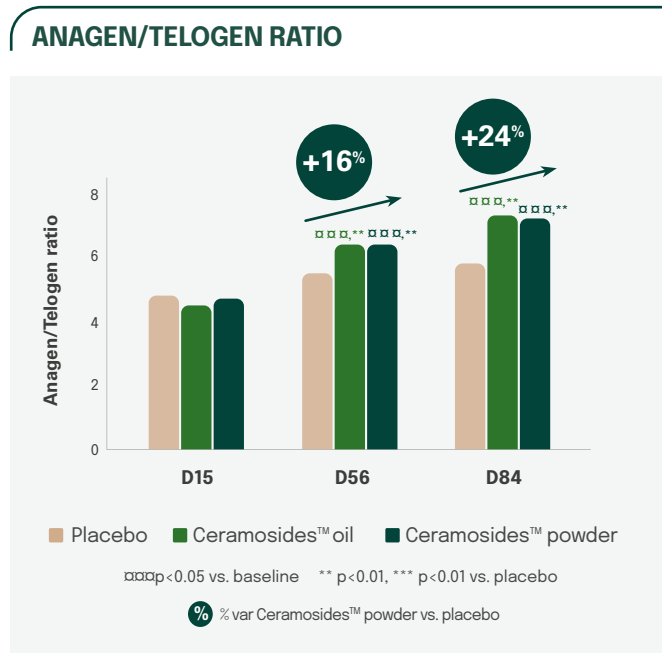
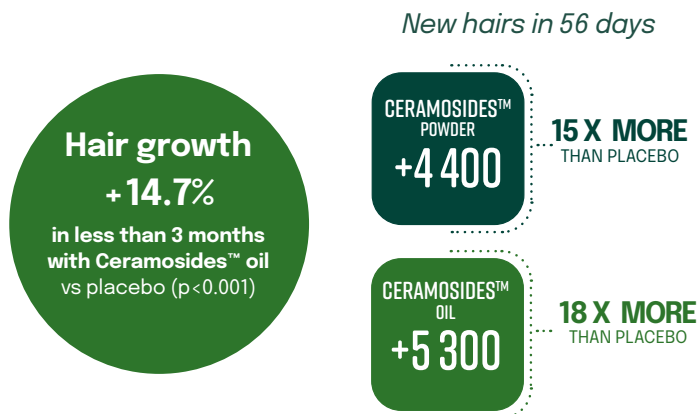
Powder (30 mg)
Ceramosides™ or Placebo
Powder (30 mg)
or Oil (70 mg)
Ceramosides™ or Placebo



84 days
 Evaluation

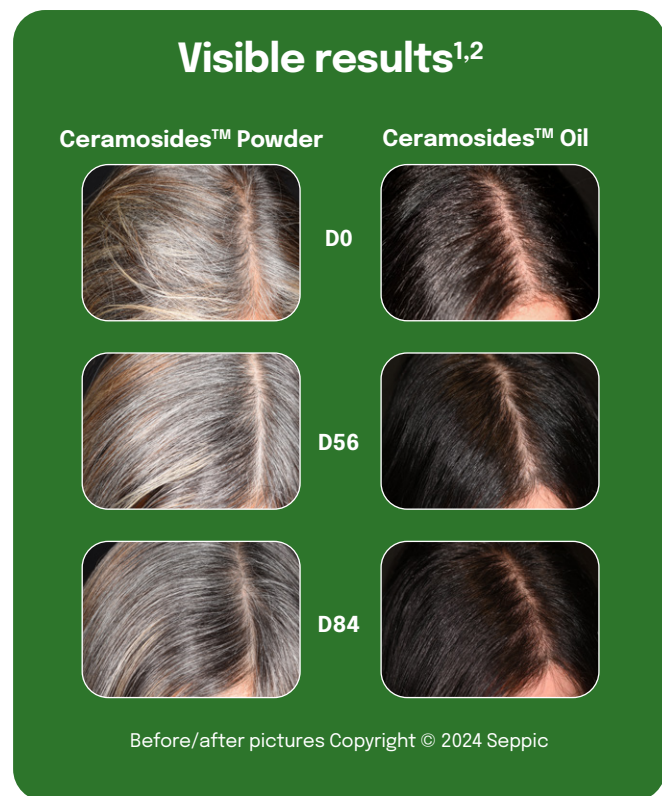
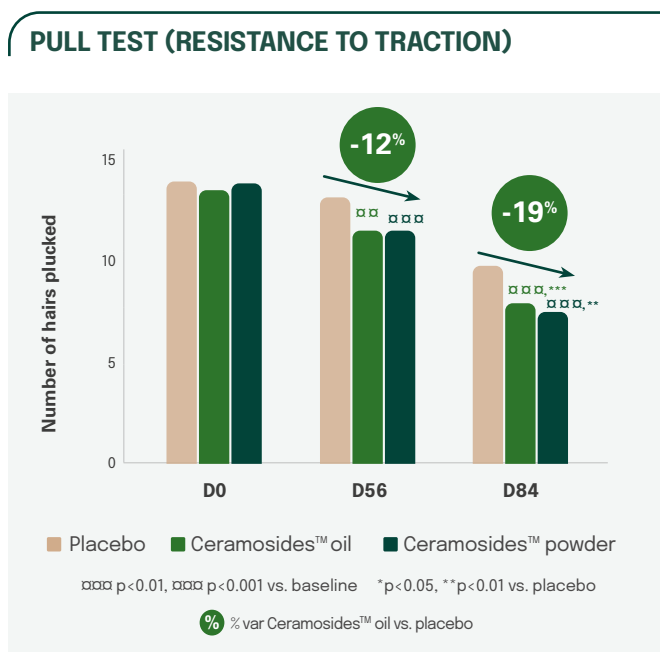
Ceramosides™ shows a strong effect on hair growth & hair loss²

In 2 gold standard clinical studies, Ceramosides™ significantly increased the **density and proportion of hair in anagen phase** and significantly **decreased the density and proportion of hair in telogen phase**.



Ceramosides™ enhances hair strength²

Ceramosides™ action on hair strength was demonstrated through the improvement of hair **resistance to traction** and **resistance to breakage**.



1. Dudonné, S. et al. International Journal of Cosmetic Science, 2023.
 2. Dudonné, S. et al. - Pending publication.

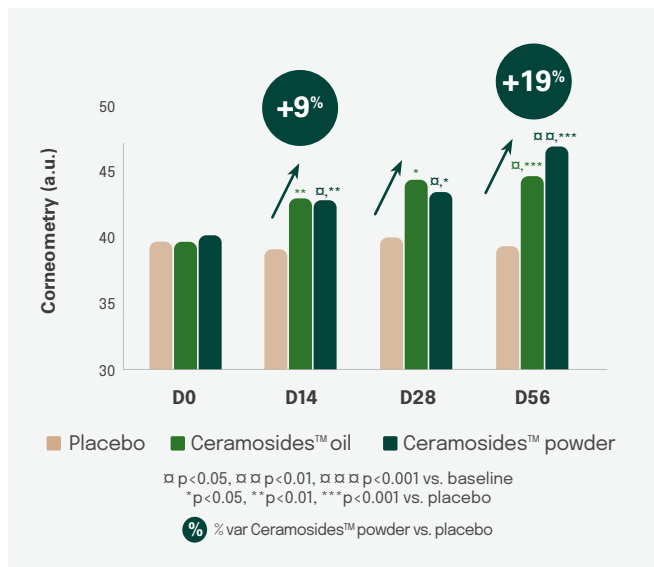
Ceramosides™ Youthful skin & stronger hair through menopause

Ceramosides™ beneficial effects on **skin and hair beauty** were also evidenced in **menopausal women** at a **similar level** to that observed in the entire population.

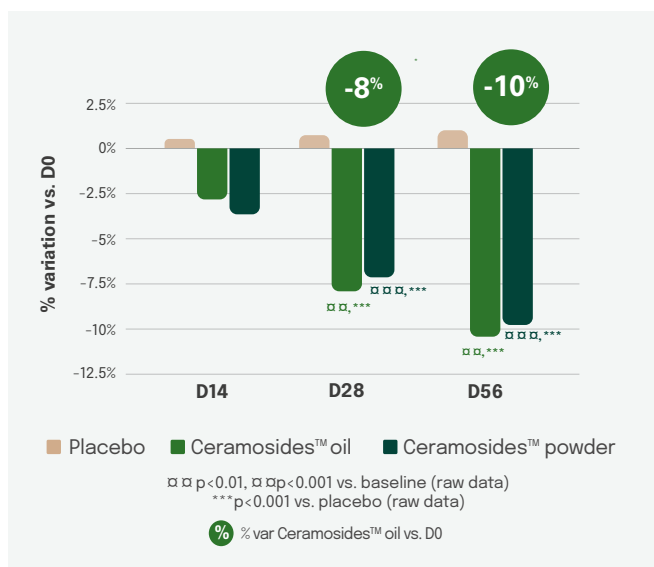
- » Skin RCT: 35 postmenopausal women¹
- » Hair RCT: 36 postmenopausal women²

Strong skin hydration and anti-aging effect¹

SKIN MOISTURIZATION



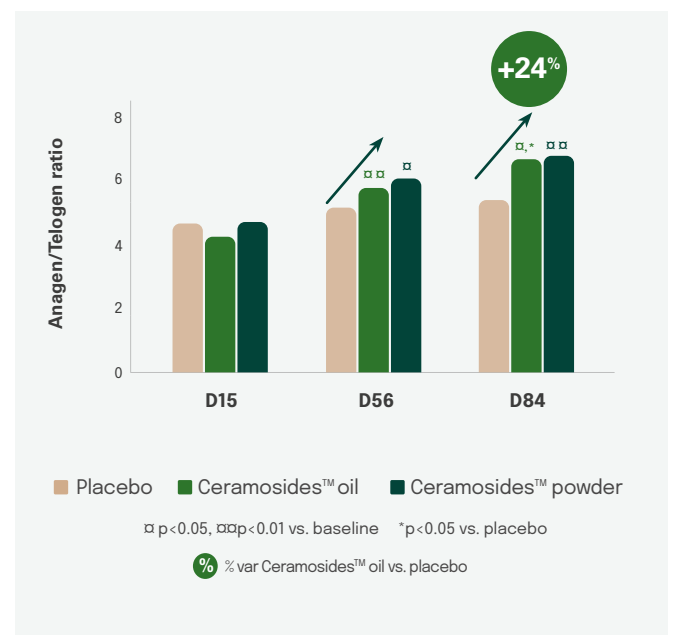
SKIN WRINKLES DEPTH



**Hair growth
+12.5%**
in less than 3 months
with Ceramosides™ Powder
vs placebo (p<0.05)

A remarkable action on hair growth²

ANAGEN / TELOGEN RATIO

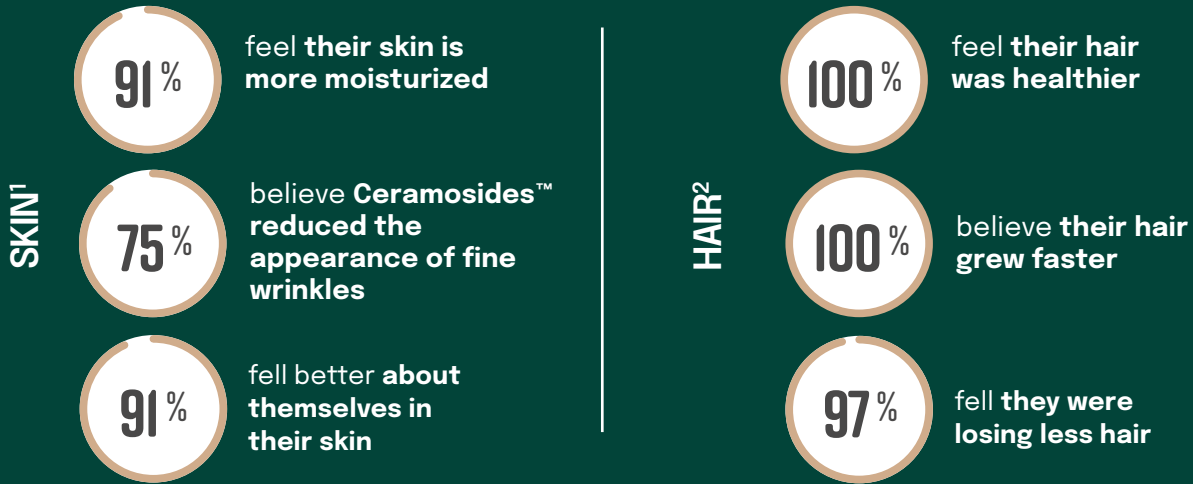


1. Kern, C. et al. *Journal of Cosmetic Dermatology*. 2024;23:1320-1330.
 2. Dudonné, S. et al. - Pending publication.

Ceramosides™, your ally for different finished product concepts

Consumers are satisfied with Ceramosides™

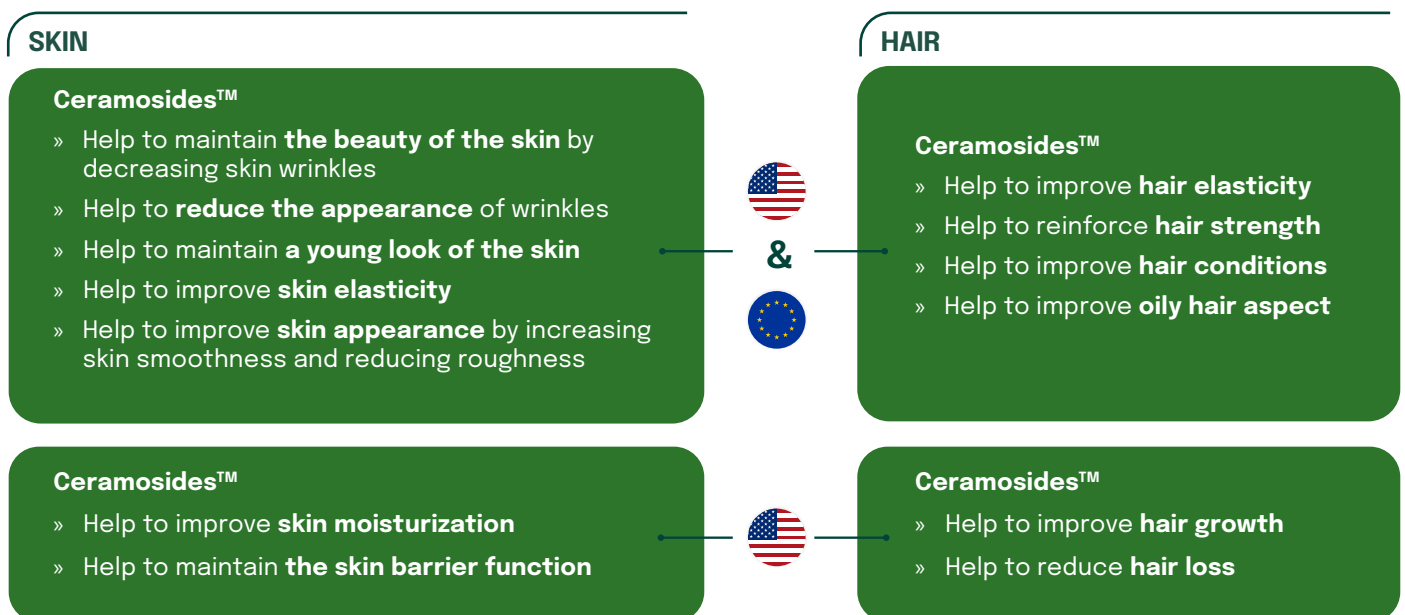
Self-assessment questionnaire results



Regulatory status

- US:** NDI with no objection letter - GRAS status
- Canada:** NHPID accepted - master file with approved claims
- EU:** approved for use in food supplements
- Australia:** listed on TGA's database
- Asia:** authorized in many Asian countries (e.g. Japan, India, Malaysia, Indonesia)

Recommended claims*



*The information provided in this document is based on the results of the clinical trials and have not been evaluated by regulatory authorities.

1. Kern, C. et al. Journal of Cosmetic Dermatology. 2024;23:1320-1330. 2. Dudonné, S. et al. - Pending publication.

To help you build an In&Out duo concept...

...Ceramoides™ is also available in cosmetic grade for topical applications: **Ceramoides™ HP**

- Skin hydration protector
- Skin complexion enhancer
- Self-esteem booster

Applications:

- ✓ Anti-aging
- ✓ Skin hydration
- ✓ Photoaging protection
- ✓ Menopause relief
- ✓ Hair growth
- ✓ Anti-hair loss
- ✓ Hair strength



The data in this document are deemed to be valid at the date indicated on the document itself, at the best of Seppic's knowledge. Seppic does not commit itself to automatically update this document and to automatically communicate the updated document to its customers. Seppic makes no warranties, whether express, implied or statutory, as to the product which is the subject of this document. The information set forth herein is furnished free of charge and is based on technical data that Seppic believes to be reliable. It is intended for use by persons having technical skill and their own discretion and risk. Since conditions of use are outside Seppic's control, Seppic makes no warranties, express or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents. The final use of the Raw Material supplied by Seppic and the compliance with associated regulations remains the sole responsibility of the customer. Seppic commits to supply Raw Materials that are in conformity with the application claimed. According to the European Cosmetic Regulation, Seppic's customers are solely responsible for the safety evaluation of the cosmetic formulations containing Raw Materials supplied by Seppic*.

Air Liquide Healthcare is a world leader in medical gases, home healthcare services and specialty ingredients. Our 16,500 employees support 2 million chronic patients and provide medical gases and related services to 20,000 hospitals and new care facilities, as well as 140,000 healthcare professionals. Committed to working alongside professionals and health institutions, our patient-centered approach is based on the principles of Value-based Healthcare, which aims to improve the benefits experienced by patients, at the best cost to society, thus contributing to a more efficient and virtuous system.

*Seppic being:

Seppic S.A. - Paris
FRANCE
Tel.: +33 (0)1 42 91 40 00
info.seppic@airliquide.com

USA- Seppic Inc.
UNITED STATES
Tel.: +1 973 882 5597
us.seppic@airliquide.com

GERMANY - Seppic GmbH
GERMANY
Tel.: +49 (0)221 888824 0
germany.seppic@airliquide.com

INDIA - Seppic Speciality
Ingredients Pvt Ltd.
INDIA
Tel.: + 91 22 61046464
india.seppic@airliquide.com

Seppic S.A. - Castres
FRANCE
Tel.: +33 (0)5 63 72 69 69
Fax: +33 (0)5 63 72 69 70

U.S.A. - Seppic Inc. Richmond
UNITED STATES
Tel.: +1 804-322-7473
ww-info-seppicinc-richmond@airliquide.com

ITALY - Seppic Italia Srl
ITALY
Tel.: +39 02 38009110
italy.seppic@airliquide.com

SINGAPORE - Seppic Office
SINGAPORE
Tel.: +65 6378 5213
singapore.seppic@airliquide.com

Seppic S.A. - Pontrieux
FRANCE
Tel.: +33 (0)2 96 95 31 32
ww-seppic-pontrieux-contact@airliquide.com

BRAZIL - Seppic Brasi IEQCI Ltda
BRAZIL
Tel.: +55 11 3252 3911
brasil.seppic@airliquide.com

POLAND - Seppic Office
POLAND
Tel.: +48 22 11 60 759
poland.seppic@airliquide.com

JAPAN - Seppic Office
JAPAN
Tel.: +81 3 6414 6725
japan.seppic@airliquide.com

Seppic S.A. - Lons
FRANCE
Tel.: + 33 (0)5 59 13 04 20
contact-serdex@airliquide.com

COLOMBIA - Seppic Colombia SAS
COLOMBIA
Tel.: +57 601 702 44 48
colombia.seppic@airliquide.com

CHINA - Seppic Shanghai
Chemical Specialities Co.
CHINA
Tel.: +86 (21) 64 66 01 49
china.seppic@airliquide.com

KOREA - Seppic Office
REPUBLIC OF KOREA 06168
Tel.: +82-2-3019-2569
korea.seppic@airliquide.com

Seppic S.A. - Villers-sur-Fère
FRANCE
Tel.: +33 (0)1 42 91 40 00
info.seppic@airliquide.com

© 2024 Seppic
Seppic is a subsidiary
of the AIR LIQUIDE group

SEPPIC

 **Air Liquide**
HEALTH CARE