

astrion®

Revitalized & Hydrated Skin

NuLiv Science's patented and clinically-studied cosmeceutical ingredient for advanced hydration.

Look Amazing, Inside and Out

Introducing Astrion®, a skin-nourishing cosmeceutical designed to promote a youthful feeling in the skin. We utilize purified fractionated extracts of *Astragalus membranaceus* and *Centella asiatica* to create this innovative ingredient.

Additionally, Astrion® has been observed in a human study to potentially contribute to the reduction of fine lines and wrinkles, likely through enhancing the natural production of collagen and hyaluronic acid, as well as improving the absorption of proline and glucosamine in skin cells, as shown in *in-vitro* studies.

Recommended Dosage: 5% Topical, 250mg Oral



**100%
PLANT-BASED**



**TOPICAL
APPLICATIONS**



**ORAL
APPLICATIONS**



PATENTED



HYDRATING

The Way to Youthful Skin

Discover a new way to formulate skin care products for deep hydration, promoting a healthier and more radiant complexion.

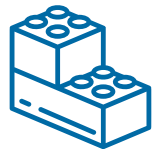
↑ PROLINE ABSORPTION UPTAKE

Demonstrated through preclinical *in-vitro* studies to support a trans-dermal effect on skin hydration



↑ COLLAGEN PRODUCTION

Demonstrated through preclinical *in-vitro* studies to support this essential building block of skin



↓ REDUCED WRINKLE APPEARANCE

A renewed look of faded fine lines and wrinkles demonstrated through a human trial



↑ HYALURONIC ACID

Demonstrated through preclinical *in-vitro* studies, helping to hydrate the skin

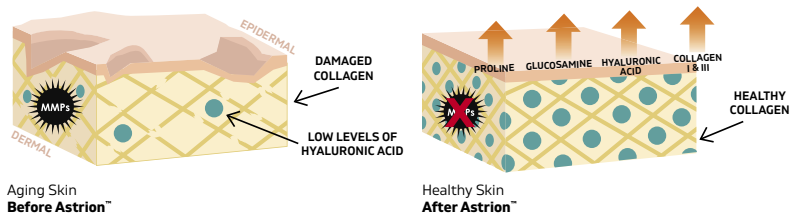


PATENTS

US 7959952 B2, CN ZL 200710089586.3, TW I362936

Firm, Toned, and Hydrated Skin is Here

Scientific mechanism of action for Astrion®



Clinical Performance

Astrion® has demonstrated in 12 *in-vitro* studies and 1 human trial to help bring wrinkled dehydrated skin back to life.

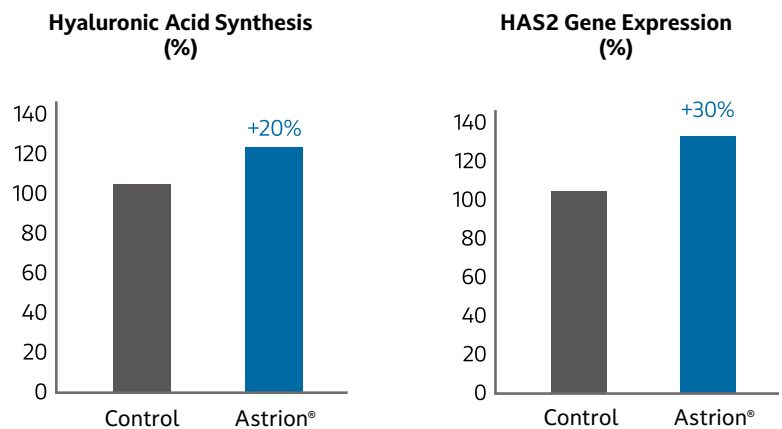
Request study references at www.nulivscience.com/ingredients/astrion

*These statements may not comply with your country's laws and regulations or with Reg. EC n. 1924/2006 and have not been evaluated by the Food and Drug Administration. The products are not intended to diagnose, treat, cure, or prevent any disease. Marketers of finished products containing this ingredient are responsible for ensuring compliance with the applicable legal framework.

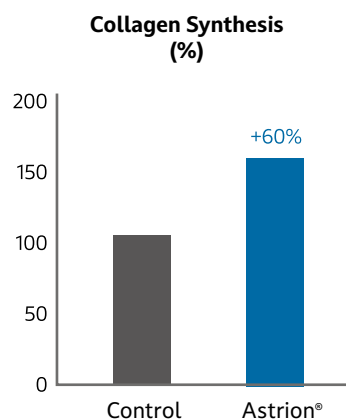
Legend

■ Control ■ Astrion®

Increased hyaluronic acid synthesis, and hyaluronic acid synthase 2 (HAS2) gene expression observed through preclinical *in-vitro* studies

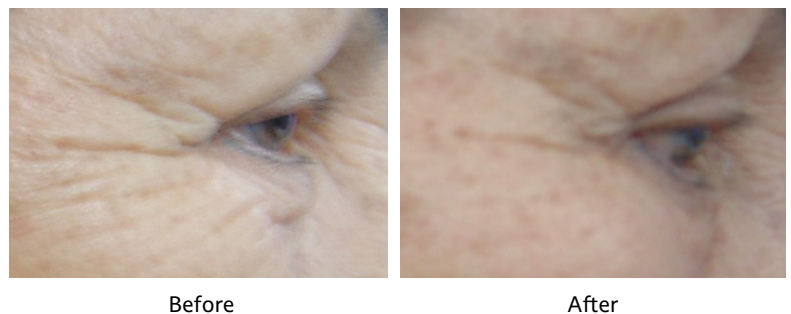


Increased collagen synthesis, indicated through preclinical *in-vitro* studies by Western Blot Analysis, showing increased Collagen I synthesis in epidermal (HaCaT) cells.



Human Trial

Duration: 4 weeks
 Subjects: Age 38-82 years
 Male: 6, average age 50.67 years
 Female: 13, average age 58.77 years
 Average age of all participants: 56.21 years
 Result: Wrinkle reduced by 14.8%, melanin reduced by 16.6%



Chang WL, Chang TC, Huang SF, et al. The rejuvenating effects of *Astragalus membranaceus* and *Centella asiatica* saponins on human skin. *Journal of Biochemistry & Biotechnology*. 2021; 4(4): 1-6.