

EXCEPTIONHYAL® STAR

ENCHANTING BEAUTY FROM THE INSIDE-OUT



ROELMI HPC - Company

ROELMI HPC is now the global expert for actives and functionals in Health & Personal Care.

But its roots date back to 1946 in the Mediterranean area, where the company still finds concepts and innovation-driven technologies, in full respect of nature and people.

Its high quality products are developed thanks to avantgarde research, scientific approach and true passion.







NIP, your P.I.N. to sustainability

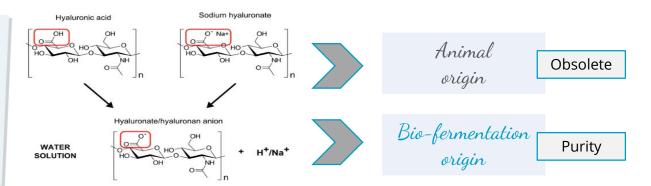


Sustainable values



Hyaluronans

Biopolymers made of linearly linked repeating units consisting of N-acetyl-D-glucosamine and D-glucuronic acid



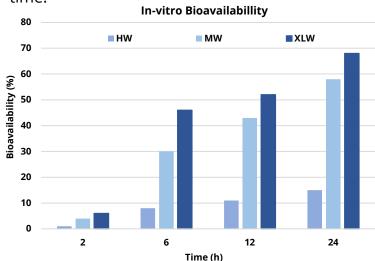
Signaling and space-filling molecules involved in human body biology. Highly hygroscopic polymers, which concur in cellular matrix remodeling and inflammatory processes regulations, tissues repair and homeostasis control.





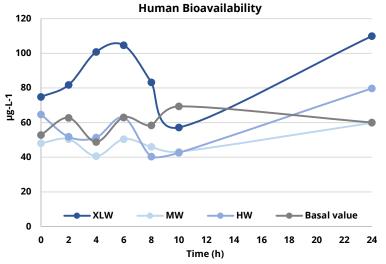
Hyaluronans MW & Effectiveness

In-vitro bioavailability inversely increases with molecular weight (MW). Thanks to enzymatic activity, higher MWs bioavailability develops over time.



Protocol: Spectrophotometric evaluation of digested hyaluronans in gastric/intestinal simulating fluid

Bioavailability in human model confirms the early absorption of lower MWs at gastric level, with later assimilation of higher MWs over time at intestinal level.

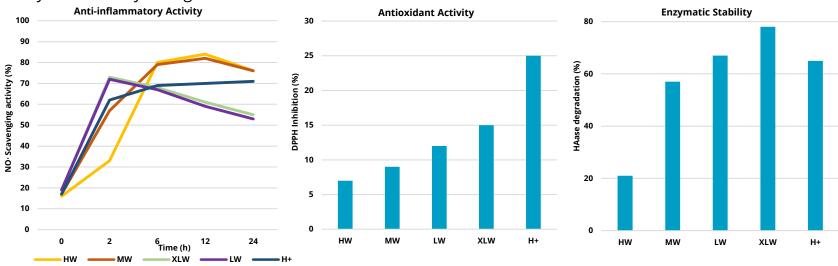


Protocol: Serum level evaluation after the administration of 200mg of different hyaluronans MWs



Hyaluronans MW & Effectiveness

In-vitro anti-inflammatory, antioxidant and *enzymatic degradation* of hyaluronans result inversely proportional to MW, with later activation of higher-sized polymers. A greater steric hindrance, indeed, delays enzymatic activity on higher MWs.



Rev 07 of 2022-02-10

Protocol: Nitric oxide radical (NO_o) scavenging assay

ROELMI HPC – ExceptionHYAL Star

Picrylhydrazil) inhibition

Protocol: Colorimetric evaluation of DPPH free radical (2.2'-diphenyl-1-

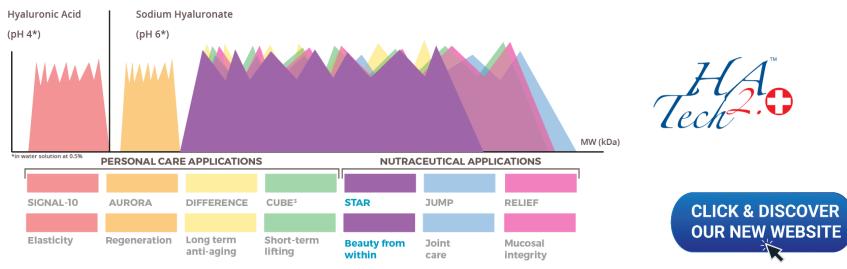
Protocol: Evaluation of weight loss percentage after hyaluronidase

degradation

2.0 Full Spectrum Hyaluronans

HA TECH 2.0® FULL SPECTRUM TECHNOLOGY

Full Spectrum Hyaluronans mimic what naturally occurs in human targeted tissues, ensuring a quick efficacy and long-term biological positive results.



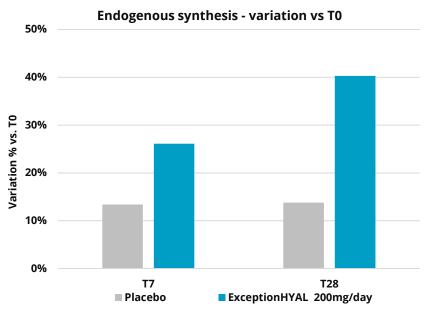


Endogenous HA synthesis

HA SERUM LEVELS

ExceptionHYAL® hyaluronans administration leads to a relevant increase of hyaluronic acid in the blood, already after 7 days. A growth of **over 40%** was positively achieved at the end of the treatment (T28).

- Quick biological efficacy
- Long-lasting enhanced HA synthesis



Protocol: Randomized, double-blind, placebo controlled clinical trial on 60 subjects. 200mg/day of ExceptionHYAL® hyaluronans for 28 days. Evaluation of HA serum levels by blood sampling at T0, after 7 days (T7), 14 days (T14), 21 days (T21) and 28 days (T28).



ExceptionHYAL® Star

- Full effective spectrum of 2.0 generation Hyaluronans complex
- Skin tonicity for mature, damaged or specific skins
- Improvement of skin moisturization & elasticity from within
- Decrease of wrinkles depth & volume
- Promotion of endogenous HA synthesis







Biological Target - Nutricosmetics

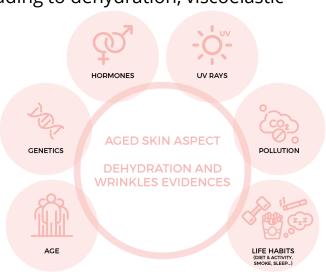
• Skin beauty is the result of the efficiency of biological processes occurring through all its different layers

Aging processes negatively affect skin biology, leading to dehydration, viscoelastic

properties impairment and wrinkles appearance

 Skin fundamental constituents are Hyaluronans (HA), Collagen and Elastin

- HA content starts decreasing from 20s, resulting in lowered hydration status and reduced tone, with fine lines emergence
- Through aging, fibroblasts and keratinocytes cellular activities slow down, advancing aging signs
- Skin structure slowly, but inevitably, deteriorates, resulting in an aged and unhealthy aspect







INCLUSION CRITERIA:

- Age = from 35 to 70 years
- Mild to moderate signs of skin aging

MEASURED PARAMETERS:

- Skin profilometry
- Skin hydration and TEWL
- Skin elasticity and firmness
- Blood HA levels

CHECKING TIMES:

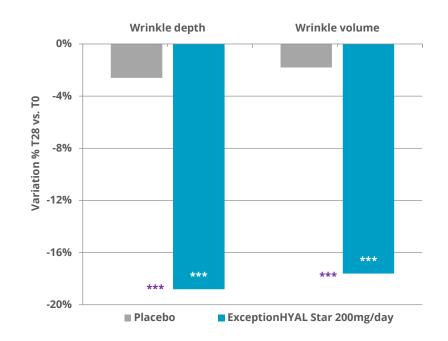
- T0 (baseline)
- After 7 (T7), 14 (T14), 21 (T21) and 28 (T28) days

Michelotti, A., Cestone, E., De Ponti, I., Pisati, M., Tursi, F. "Oral intake of a new hyaluronan improves skin profilometry and ageing factors: a randomized, double-blind, placebo controlled clinical trial". The European Journal of Dermatology (EJoD), 2021



SKIN PROFILOMETRY

- ExceptionHYAL® Star demonstrates a significant improvement of skin profilometry in terms of both wrinkles depth and volume.
 - Less marked wrinkles (-17.6%)
 - Less deeped wrinkles (-18.8%)



** p < 0.01, *** p < 0.001

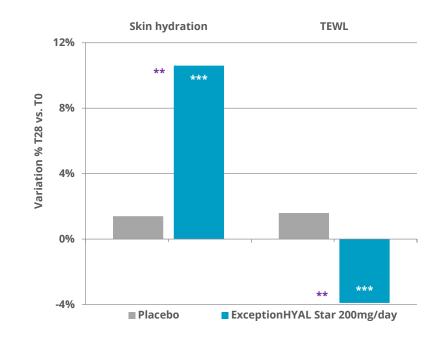
Material: Primos 3D (GFMesstechnik Gmbh).





SKIN HEALTH

- ExceptionHYAL® Star shows a significant effect on skin moisturization (hydration & TEWL)
 - Skin is more hydrated (+10.6%)
 - Skin is more protected from dehydration (-3.9% transepidermal water loss)



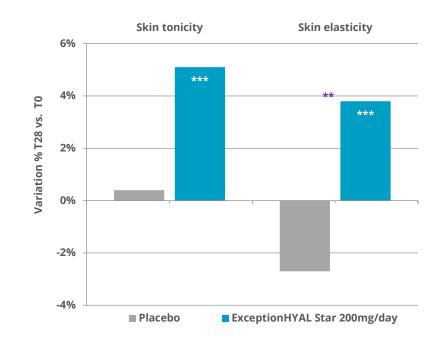
** p < 0.01, *** p < 0.001

Material: Corneometer[®], Tewameter 300[®].



SKIN APPEARANCE

- ExceptionHYAL® Star provides important benefits to skin beauty in terms of:
 - Skin tonicity (**+5.1%** in skin firmness vs T0)
 - Skin elasticity (+3.8%)



** p < 0.01, *** p < 0.001

Material: Cutometer® MPA 580, Courage + Khazaka).

Human model



Take-home message

ROELMI HPC's HA Tech 2.0® Technology & Full Spectrum Hyaluronans

Supportive and preventive approach to skin aging and beauty from within for all ages:

- Reduction of wrinkle appearance
- Enhancement of skin hydration, preventing dehydration
- Improvement of skin elasticity and tonicity
- Endogenous HA synthesis







ExceptionHYAL® Star - Summary

Description: Sodium Hyaluronate from 2.0 generation

Origin: biotechnology, biofermentation

Aspect: white powder

Solubility: slightly soluble in water

Typical dosage: from 100 to 200 mg/day

Tested dosage: 200 mg/day

TYPICAL APPLICATIONS:

- Skin hydration, recovering effect
- Skin suppleness, elasticizing effect
- Anti-wrinkle applications
- Improvement of skin health & beauty from within









Sachet / sticks



Vials / drinks









info@roelmihpc.com www.roelmihpc.com









ROELMI HPC USA

250 Pehle Ave., Suite 200 07663 Saddle Brook New Jersey United States of America P: +1 201-705-2038

ROELMI HPC France Sarl

Zac du Cornillon Nord, porte E, CS 60003 93216 Saint Denis France P: +33 (0)1 4821 6629

ROELMI HPC Srl

Via Celeste Milani, 24/26 21040 Origgio (VA) Italy P: +39 02 3351 0150

ROELMI HPC Swiss SA

Via Luganetto, 4 6962 Viganello (TI) Switzerland P: +41 91 9717 961

ROELMI Asia Pacific Co. Ltd.

RM 909, Bld. No.8 No. 1 Rong Hua Nan Rd. Beijing Development

Zone 100176

Beijing – China

P: +86 10 5667 6073

