

# Hyaluronic Acid

*One Range of Hyaluronic Acid,  
Multiple Skin Benefits*



September 2026

Biotech | Nature, enhanced by science

dsm-firmenich 

**No ingredient has taken the world of skincare by storm quite like hyaluronic acid has in recent years.**

- **Skincare's Most Popular Ingredient**  
Vogue

VOGUE

- **The ingredient you're seeing everywhere**  
Harpers Bazaar

BAZAAR

- **The secret to bouncy, fresh, healthy-looking skin**  
Glamour magazine

GLAMOUR

- **Hyaluronic acid holds the key to smooth, flawless and hydrated skin**  
Elle magazine

ELLE

- **Hyaluronic Acid, was the most searched skincare ingredient**  
google.com in 2024

Google

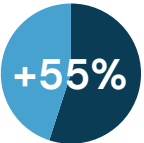


dsm-firmenich 

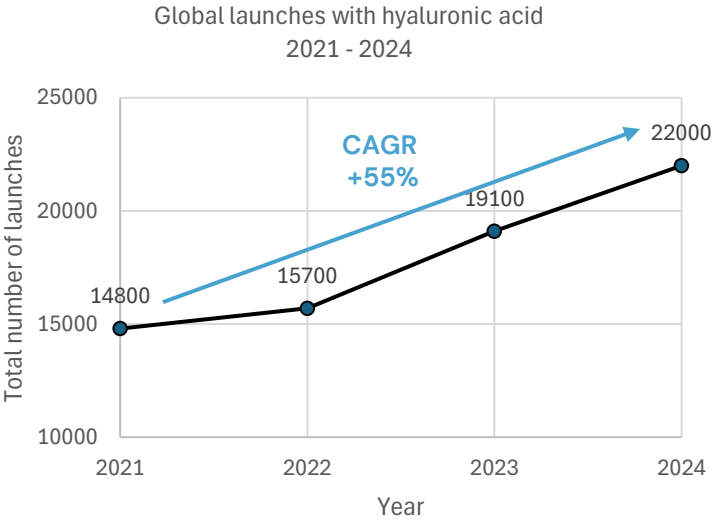
# The hype on hyaluronic acid



More than 22000 skin care products containing hyaluronic acid **claim to increase hydration** within the skin.



The number of product launches with hyaluronic acid has grown with a CAGR of 55% over the past 4 years.



Source: Mintel 2025



# Hyaluronic acid becomes a coveted ingredient in new products...



If you have extremely dry skin...



If you want instant hydration...



If your skin is looking tired...



If you want to fix dry lips...



If you want stronger hair ...



If you want to plump the skin...



If you want to treat fine lines...



If you want to treat wrinkles (with 1.5% HA)...



Best sellers contain various forms of hyaluronic acid for more efficacy



Best  
seller

COSMOPOLITAN

This formula uses three forms of hyaluronic acid with varying molecular weights, to offer multi-depth hydration and visible plumping without drawing water out of the skin.



Best  
seller

allure

With long and short chain hyaluronic acid molecules to penetrate at different layers of your skin for an instant refresh, as well as for long-term glow.



Best  
seller

allure

With two different size of hyaluronic acid both to plump skin with moisture and 'fill out' the appearance of fine lines and wrinkles.



# Anti-ageing products containing hydrolyzed hyaluronic acid form are on the rise



The number of product launches with Hydrolyzed Hyaluronic Acid has consistently grown with a CAGR of 16% over the past 5 years.

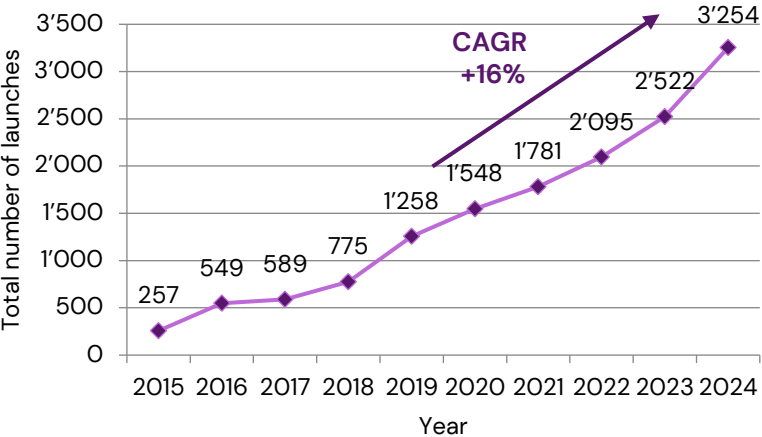


Hydrolyzed Hyaluronic Acid is a fragmented form of hyaluronic acid with a smaller molecular size.



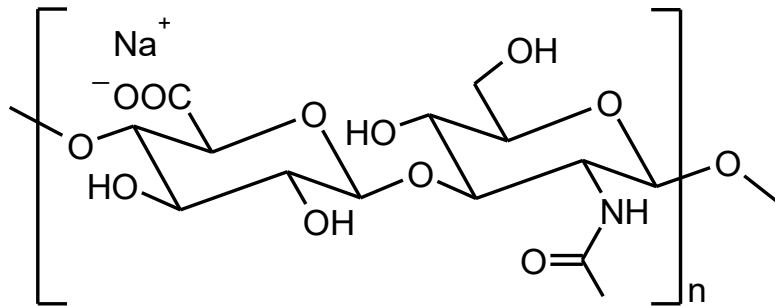
Hydrolyzed Hyaluronic Acid is often used in anti-ageing creams and moisturizers for its ability to **effectively hold water and fills wrinkles from inside.**

Beauty & Care Product Launches with Hydrolyzed Hyaluronic Acid



## What is hyaluronic acid?

- **hyaluronic acid** is an unbranched disaccharide polymer comprising repeating disaccharide units of sodium glucuronate and D-N-acetylglucosamine.
- **hyaluronic acid occurs as the salt form** in our skin.
- **the activity in skin is coming from the hyaluronic acid part** and not from the salt.



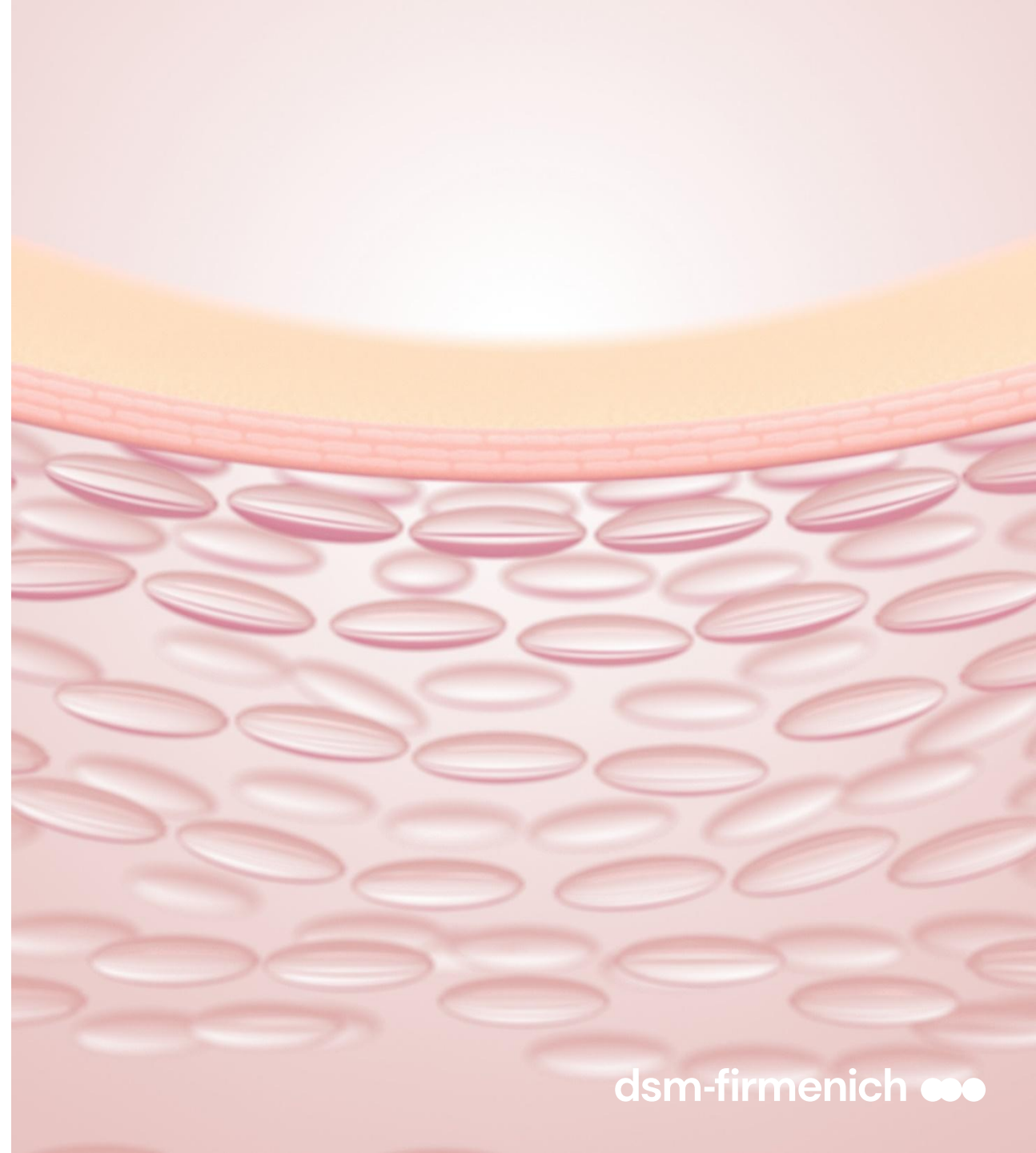
# Hyaluronic acid is located in the first layers of the epidermis and dermis

## Epidermis:

- Hyaluronic acid serves as a filler between keratinocytes for nutrient exchange and as signaling ligand.
- It maintains our skin's moisture balance and keeps it hydrated.

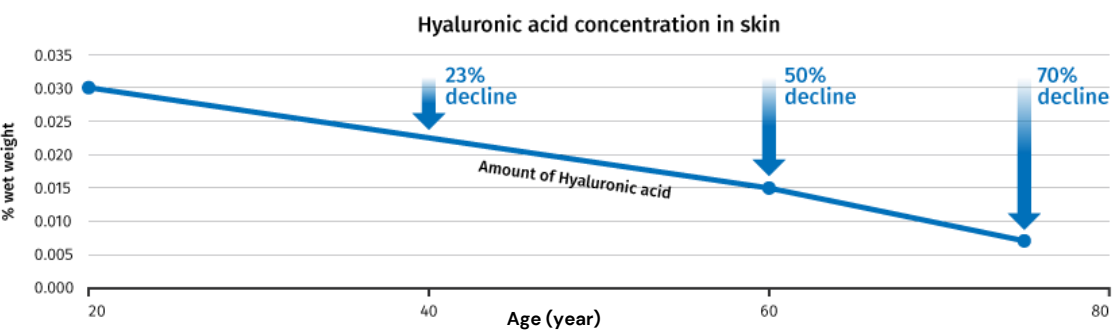
## Dermis:

- Hyaluronic acid is a major component of the extracellular matrix of the skin and is vital for skin health.
- It is a jelly-like substance that fills the space between collagen and elastin fibers to make skin flexible.
- It plays a crucial role in aging.



# With age, hyaluronic acid in the skin decreases quite sharply ...

- With age, hyaluronic acid in the skin decreases quite sharply\*, resulting in a loss of hydration, volume and plumpness. Lines and wrinkles also appear, and skin is left looking dull.

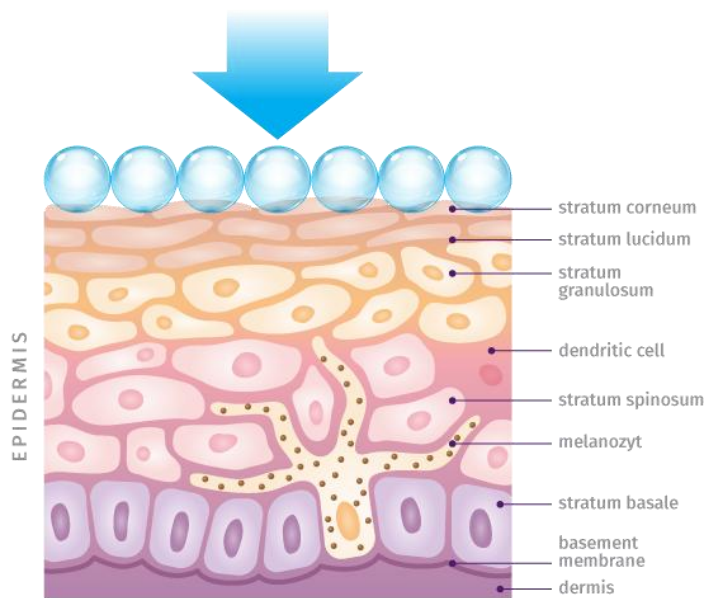


# Hyaluronic acid in Beauty Products

- These days, you'd be hard-pressed to find a product that doesn't have it in its formulation.
- **Sodium hyaluronate is used mainly in skincare products.**
- The salt allows for improved stability and solubility in water.
- **Hyaluronic acid (HA) exists in different Molecular Weight (MW) forms:**
  - **Medium – High Molecular Weight HA:**  
500k – 2MDa  
INCI name: **Sodium Hyaluronate**
  - **Low Molecular Weight HA:**  
100k – 500kDa  
INCI name: **Sodium Hyaluronate**
  - **Very Low Molecular Weight HA:**  
below 100kDa  
INCI name: **Hydrolyzed Hyaluronic Acid**

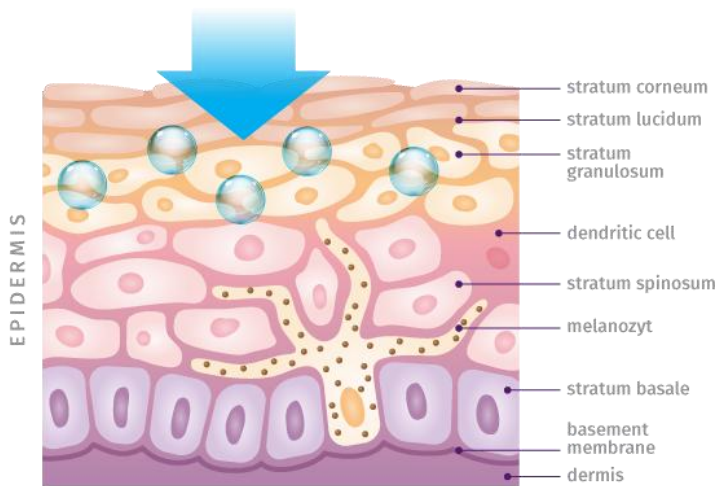


# Benefits of different hyaluronic acid molecular weights\*



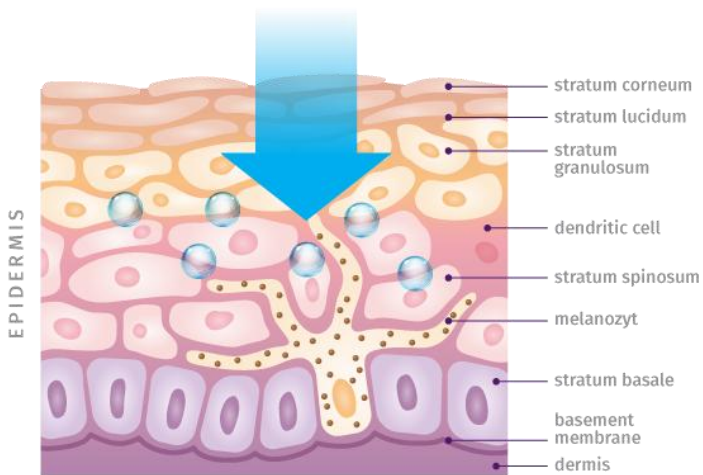
## Medium to High Molecular Weight HA >1.0M Da

It sits on the uppermost layers of the skin and acts as a sponge to deliver immediate hydration to the surface of skin.



## Low (Small) Molecular Weight HA 100 – 500K Da

It passes through the stratum corneum and is present in the superficial layer of the epidermis under stratum corneum to hydrate skin.



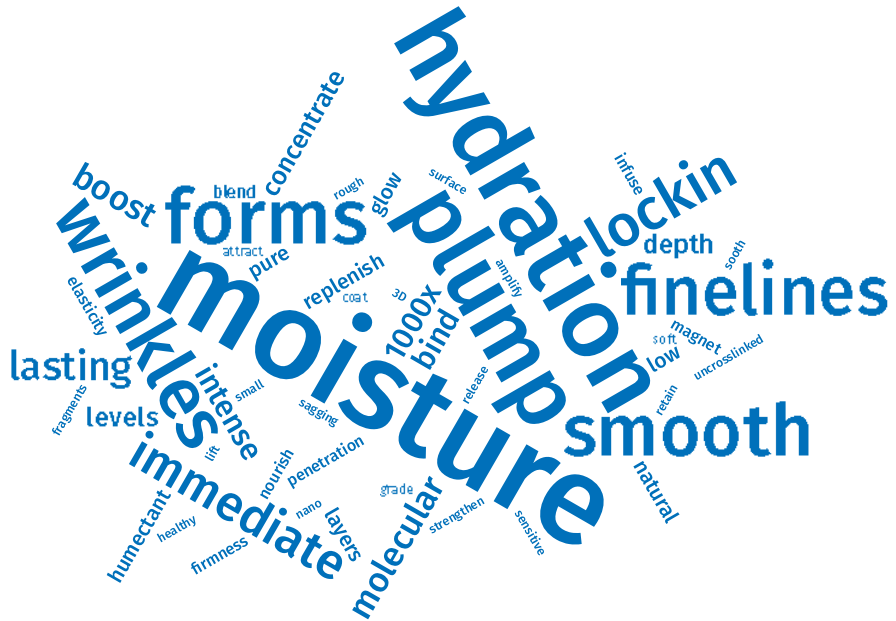
## Very Low (Small) Molecular Weight HA 20 – 50K Da

It can penetrate the space between the skin cells in the deepest layers of the epidermis and moisturize from within whilst filling up the gaps, leading to a plumped effect.

\* Essendoubi et al, Human skin penetration of hyaluronic acid of different molecular weights as probed by Raman spectroscopy; skin research and technology 2015, 1-8

## And why is it so commonly used?

- Usually, when hyaluronic acid is added to skincare products, its humectant properties draw moisture into the skin to keep our skin looking and feeling healthy.
- More than 20 claims & benefits why you need hyaluronic acid in your skin care regimen...



# Hyaluronic Acids

*One Range of Hyaluronic Acids,  
Multiple Skin Benefits*

**HYALURONIC ACID-BT/ HYASOL PF** · *High Molecular Weight*

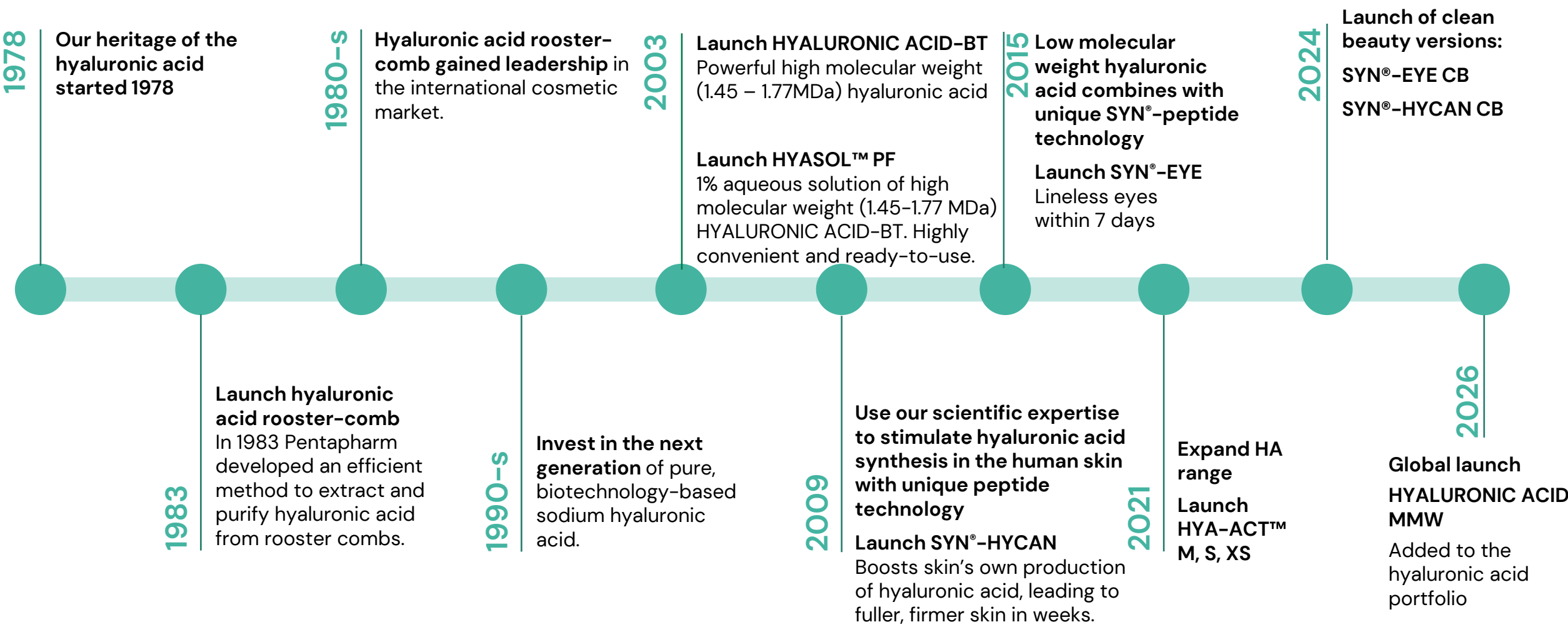
**HYALURONIC ACID MMW** · *Medium-High Molecular Weight* **NEW!**

**HYA-ACT™ M** · *Medium Molecular Weight*

**HYA-ACT™ S** · *Small Molecular Weight*

**HYA-ACT™ XS** · *Very Small Molecular Weight*

# dsm-firmenich has been exploring the beauty potential of hyaluronic acid and beyond



# dsm-firmenich hyaluronic acid portfolio

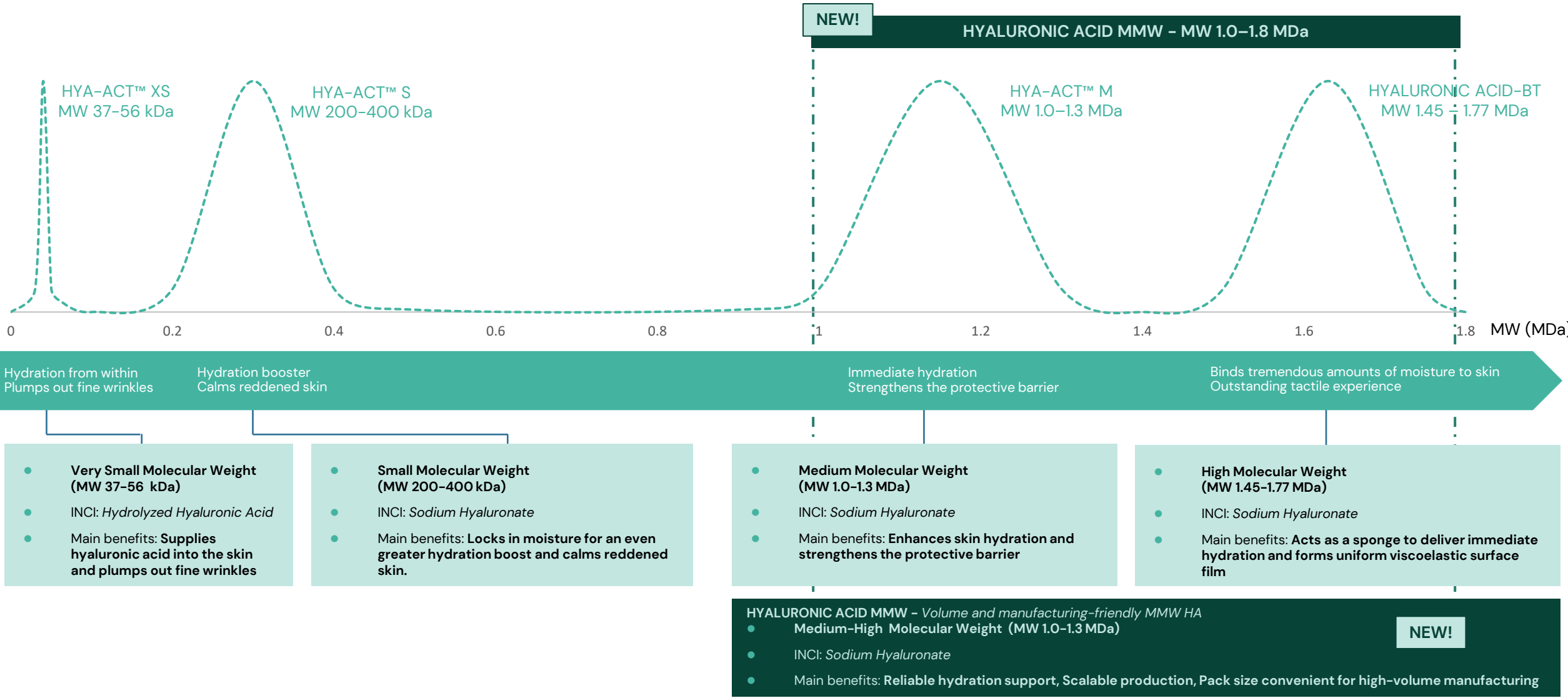
## Different sizes for different benefits

| Product                    | Molecular Weight (MW)         | INCI name                  | Physical Form | Biotech process | Sugar Origin | Benefits                                                                                                                                                                                                                               |
|----------------------------|-------------------------------|----------------------------|---------------|-----------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HYALURONIC ACID-BT</b>  | High MW<br>1.45–1.77 Mda      | Sodium Hyaluronate         | Powder        | Fermentation    | Beet root    | <ul style="list-style-type: none"> <li>Acts as a sponge to deliver immediate hydration and forms uniform viscoelastic surface film.</li> <li>Outstanding tactile experience and skin revival immediately after application.</li> </ul> |
| <b>HYASOL™ PF</b>          | High MW<br>1.45–1.77 Mda      | Sodium Hyaluronate         | Liquid        | Fermentation    | Beet root    | <ul style="list-style-type: none"> <li>Ready to use 1% aqueous solution of HYALURONIC ACID BT.</li> <li>Same benefits as HYALURONIC ACID BT.</li> </ul>                                                                                |
| <b>HYALURONIC ACID MMW</b> | Medium–High MW<br>1.0–1.8 Mda | Sodium Hyaluronate         | Powder        | Fermentation    | Corn seeds   | <ul style="list-style-type: none"> <li>Reliable standard HA hydration performance.</li> <li>Scalable solution for large–scale manufacturing.</li> <li>Commercial 10 kg pack size.</li> </ul>                                           |
| <b>HYA-ACT™ M</b>          | Medium MW<br>1.0–1.3 Mda      | Sodium Hyaluronate         | Powder        | Fermentation    | Corn seeds   | <ul style="list-style-type: none"> <li>Provides immediate hydration</li> <li>Strengthens the protective skin barrier by building a superior protecting film.</li> </ul>                                                                |
| <b>HYA-ACT™ S</b>          | Small MW<br>200 – 400 Kda     | Sodium Hyaluronate         | Powder        | Fermentation    | Corn seeds   | <ul style="list-style-type: none"> <li>Acts as a hydration booster.</li> <li>Lock in moisture for an even greater hydration boost and calms reddened skin.</li> </ul>                                                                  |
| <b>HYA-ACT™ XS</b>         | Very small MW<br>37 – 56 Kda  | Hydrolyzed Hyaluronic Acid | Powder        | Fermentation    | Corn seeds   | <ul style="list-style-type: none"> <li>Supplies hyaluronic acid into the skin and plumps out fine wrinkles.</li> <li>Improves skin elasticity.</li> </ul>                                                                              |

NEW!

# dsm-firmenich hyaluronic acid portfolio

## A powerhouse of different hyaluronic acid forms that delivers various consumer benefits



# HYALURONIC ACID-BT

*Experience immediate  
skin revival*

## HYASOL PF



# HYALURONIC ACID-BT

## ID Card

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                               |                                                 |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------|
| INCI NAME:                    | Sodium Hyaluronate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |                                                 |
| TECHNOLOGY:                   | Powerful high molecular (1.45–1.77 MDa) Hyaluronic acid, manufactured by biotechnological fermentation in Europe<br>Derived from beet root – GMO free<br>Fine granuled powder for easier handling<br>100% natural origin (ISO 16128)                                                                                                                                                                                                                                                                                                 |                                               |                                                 |
| TECHNICAL:                    | Form: White powder or granules<br>pH of use: 6.0–7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Use level: 0.01 – 1.00%<br>Preservative: free | Solubility: Slowly but completely water soluble |
| BENEFITS:                     | <ul style="list-style-type: none"><li>• Acts as a sponge to deliver immediate hydration to the surface of skin</li><li>• Forms uniform viscoelastic surface film</li><li>• Binds tremendous amounts of moisture to skin</li><li>• Outstanding tactile experience and skin revival immediately after application</li></ul>                                                                                                                                                                                                            |                                               |                                                 |
| REGISTRATION<br>CERTIFICATION | <div><div>Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard</div></div> |                                               |                                                 |

\* in vitro \*\* in vivo

# HYALURONIC ACID-BT

## Specific quality for easier handling

Average Market Product



- Dust formation
- Slow solubility

HYALURONIC ACID-BT



- + Dust free
- + Faster solubility

Fine granule  
for easier  
handling  
and  
dissolution

# HYASOL PF

## ID Card

|                               |                                                                                                                                                    |                                                 |                           |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------|
| INCI NAME:                    | Sodium Hyaluronate, Aqua, Phenoxyethanol                                                                                                           |                                                 |                           |
| TECHNOLOGY:                   | 1% aqueous solution of high molecular (1.45–1.77 MDa) HYALURONIC ACID–BT<br>Highly convenient and ready-to-use<br>99.1% natural origin (ISO 16128) |                                                 |                           |
| TECHNICAL:                    | Form: Clear to slightly opalescent, colorless, viscous solution<br>pH of use: 4.0–10.0                                                             | Use level: 3–5%<br>Preservative: Phenoxyethanol | Solubility: Water soluble |
| BENEFITS:                     | Same benefits as HYALURONIC ACID–BT                                                                                                                |                                                 |                           |
| REGISTRATION<br>CERTIFICATION |                                                                |                                                 |                           |

NEW!

# HYALURONIC ACID

Reliable hydration performance  
for scalable production  
*A volume and manufacturing-friendly MMW HA*

## MMW



# HYALURONIC ACID MMW

## ID Card

### INCI NAME:

Sodium Hyaluronate

### TECHNOLOGY:

Pure, biotechnologically manufactured, medium – high molecular weight hyaluronic acid of 1.0–1.8 MDa  
 Derived from corn seeds  
 GMO free  
 100% natural origin (ISO 16128)

### TECHNICAL:

Form: White, pale-yellow powder  
 pH of use: 4.0–11.0

Use level: 0.01–1%  
 Preservative: free

Solubility: Slowly but completely water soluble

### BENEFITS:

- Reliable standard hyaluronic acid hydration performance
- Suitable for broad skin-care applications
- Production-friendly solution attractive for customers looking for larger commercial pack sizes
- Generates less dust, supporting easier use during production

### REGISTRATION CERTIFICATION



Raw material verified  
 by ECOCERT  
 GREENLIFE, conform to  
 the COSMOS Standard



# What makes HYALURONIC ACID MMW unique in our portfolio?

**01**

## Portfolio role

Commercial and operational complement to the existing HA portfolio

**02**

## Customer need

Designed for customers seeking standard HA performance in larger commercial volumes

**03**

## Manufacturing fit

10 kg commercial pack size, production-friendly format and low dust generation for easier use during production

**04**

## Clear differentiation

HYA-ACT™ M remains our premium, efficacy-focused medium molecular weight HA.

HYALURONIC ACID MMW is our volume and manufacturing-friendly medium molecular weight HA.

## KEY TAKEAWAY

HYALURONIC ACID MMW expands customer choice with a reliable, scalable and production-friendly medium molecular weight HA solution for standard hydration applications.

# HYA-ACT™

*The hyaluronic acid line  
for the ultimate beauty boost*



# HYA-ACT™ M (Medium Molecular Weight)

## ID Card

|             |                                                                                                                                                                                                                                                                                                                                                                   |                                          |                                                 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------|
| INCI NAME:  | Sodium Hyaluronate                                                                                                                                                                                                                                                                                                                                                |                                          |                                                 |
| TECHNOLOGY: | Pure, biotechnologically manufactured, medium molecular weight hyaluronic acid of 1.0 – 1.3 MDa<br>Derived from sweet corn seeds<br>GMO free<br>100% natural origin (ISO 16128)                                                                                                                                                                                   |                                          |                                                 |
| TECHNICAL:  | Form: White powder to granules<br>pH of use: 4.0–11.0                                                                                                                                                                                                                                                                                                             | Use level: 0.01–1%<br>Preservative: free | Solubility: Slowly but completely water soluble |
| BENEFITS:   | <ul style="list-style-type: none"><li>• Provides immediate hydration : A single application enhances skin hydration up to 60% after just 1h.*</li><li>• Strengthens the protective skin barrier, with an up to 26% reduction in TEWL after just 1h.*</li><li>• Suitable for all kinds of facial and body care leave-on and rinse-off hydration products</li></ul> |                                          |                                                 |

REGISTRATION  
CERTIFICATION



COSMOS  
APPROVED

Raw material verified  
by ECOCERT  
GREENLIFE, conform to  
the COSMOS Standard







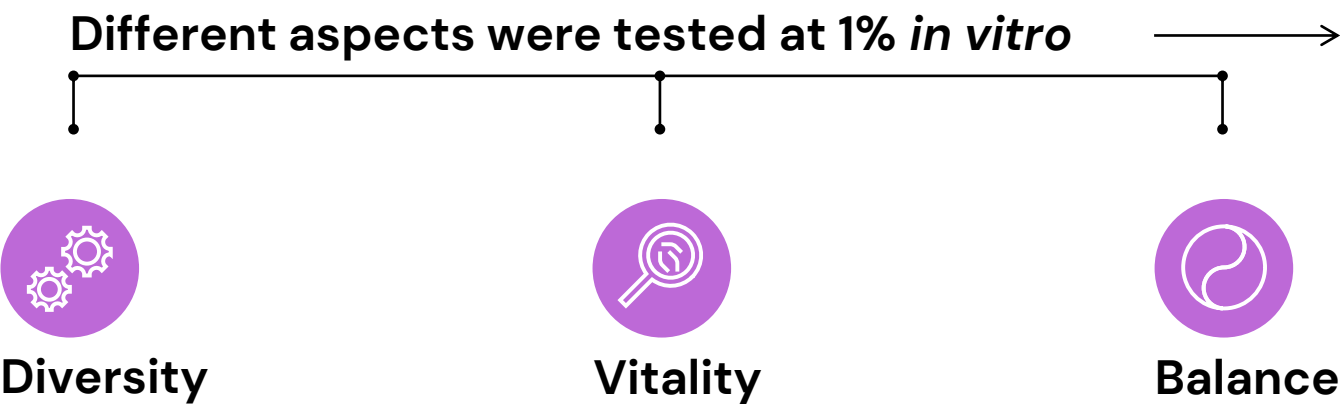


\* in vivo

# HYA-ACT™ M

Certified as Microbiome-friendly

Tested according to MyMicrobiome Standard 18.10\*



**HYA-ACT™ M**  
respects the natural diversity of the skin microbiome

**HYA-ACT™ M**  
doesn't interfere with the growth behaviour of the natural skin microbiome

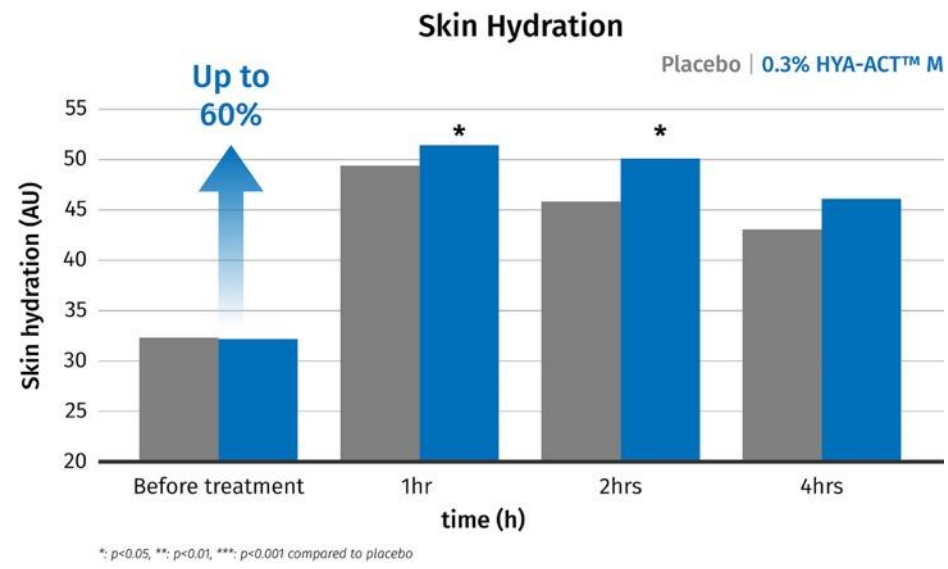
**HYA-ACT™ M**  
respects the balance between skin-friendly bacteria such as *Staphylococcus epidermidis* and skin-harmful bacteria such as *Staphylococcus aureus*

\* <https://www.mymicrobiome.info/mymicrobiome-standard-18-10-tests-skin-microbiome-friendly.html>

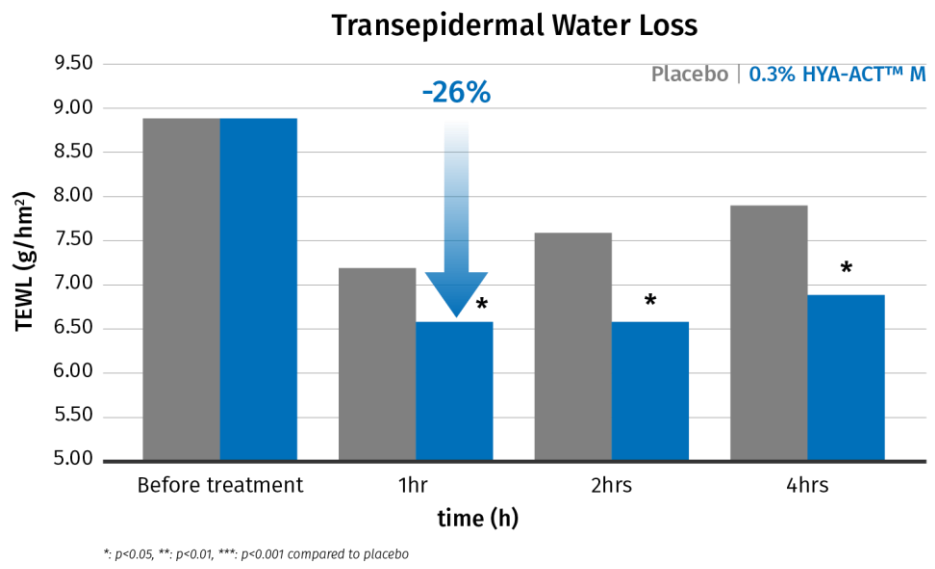
# HYA-ACT™ M

## Enhances skin hydration and strengthens the protective barrier

**Test protocol:** 20 female volunteers; application: single application, inner forearm; test products: lotion (placebo), lotion with **0.3% HYA-ACT™ M**; measurement time points 1h, 2h and 4h; skin parameters: skin hydration (corneometer) and transepidermal water loss (TEWL).



A single application enhances skin hydration up to 60% after just 1h.



Strengthens the protective skin barrier, with an up to 26% reduction in TEWL after just 1h.

# HYA-ACT™ S (Small Molecular Weight)

## ID Card

|             |                                                                                                                                                                                                                                                                                                         |                                          |                                                  |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------|
| INCI NAME:  | Sodium Hyaluronate                                                                                                                                                                                                                                                                                      |                                          |                                                  |
| TECHNOLOGY: | Biotechnologically manufactured, small molecular weight hyaluronic acid of 200 – 400 KDa<br>Derived from sweet corn seeds<br>GMO free<br>100% natural origin (ISO 16128)                                                                                                                                |                                          |                                                  |
| TECHNICAL:  | Form: White or almost white powder to granules<br>pH of use: 4.0–11.0                                                                                                                                                                                                                                   | Use level: 0.01–1%<br>Preservative: free | Solubility: Quickly and completely water soluble |
| BENEFITS:   | <ul style="list-style-type: none"> <li>• Acts as a hydration booster for thirsty skin*</li> <li>• Lock in moisture for an even greater hydration boost*</li> <li>• Calms reddened skin**</li> <li>• Suitable for all kinds of facial and body care leave-on and rinse-off hydration products</li> </ul> |                                          |                                                  |

REGISTRATION  
CERTIFICATION

Verified by  
**ECOCERT**  
**COSMOS**  
 APPROVED

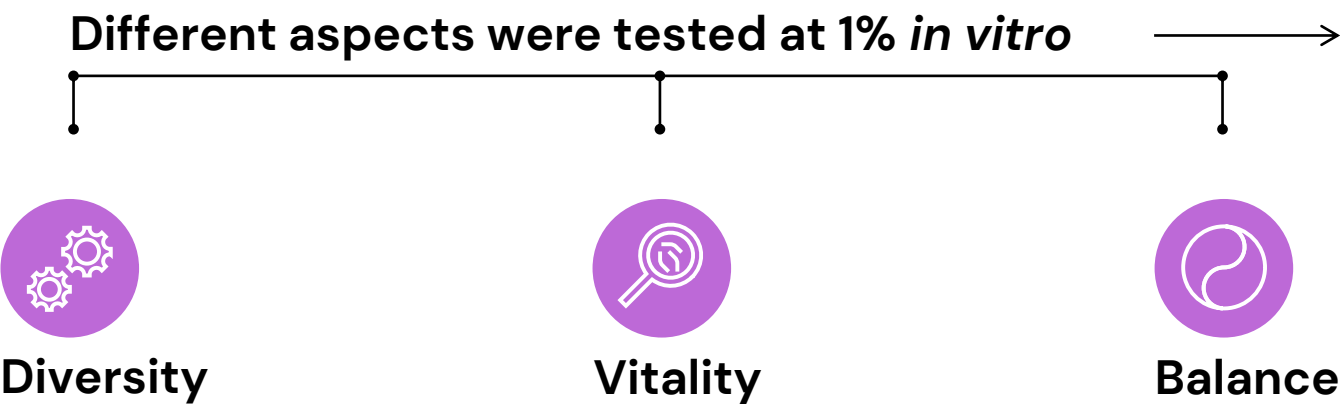
Raw material verified  
 by ECOCERT  
 GREENLIFE, conform to  
 the COSMOS Standard

\* in vitro \*\* in vivo

# HYA-ACT™ S

Certified as Microbiome-friendly

Tested according to MyMicrobiome Standard 18.10\*



**HYA-ACT™ S**  
respects the natural diversity of the skin microbiome

**HYA-ACT™ S**  
doesn't interfere with the growth behaviour of the natural skin microbiome

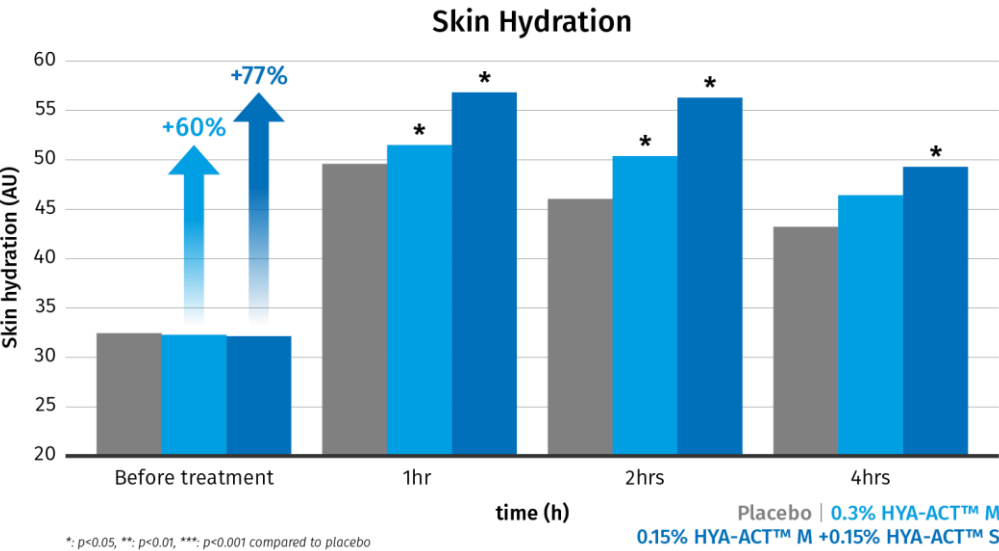
**HYA-ACT™ S**  
respects the balance between skin-friendly bacteria such as *Staphylococcus epidermidis* and skin-harmful bacteria such as *Staphylococcus aureus*

\* <https://www.mymicrobiome.info/mymicrobiome-standard-18-10-tests-skin-microbiome-friendly.html>

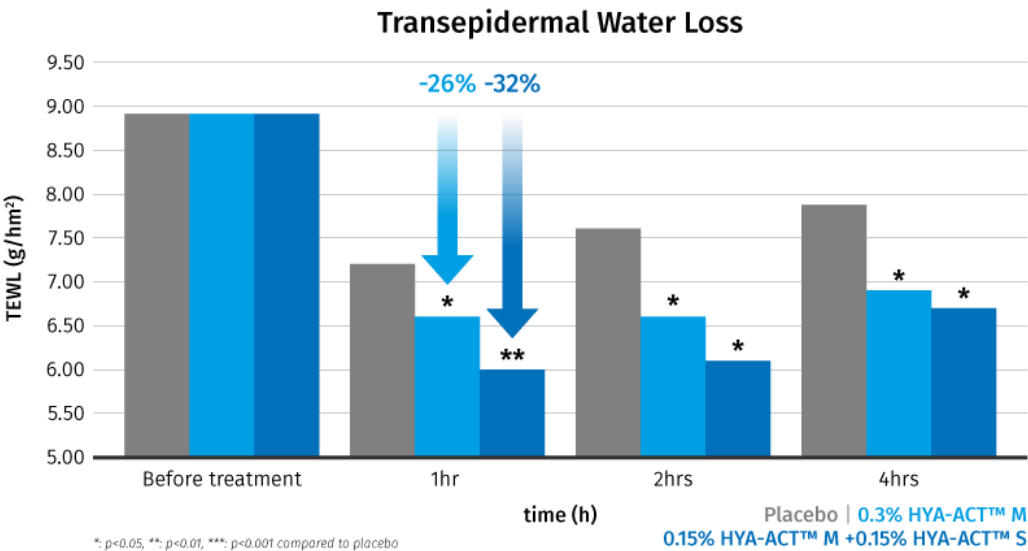
# HYA-ACT™ S

Acts as a hydration booster and fortifies the skin's natural barrier

**Test protocol:** 20 female volunteers; application: single application, inner forearm; test products: lotion (placebo), lotion with **0.30% HYA-ACT™ M**, lotion with **0.15% HYA-ACT™ M** and **0.15% HYA-ACT™ S**; measurement time points 1h, 2h and 4h; skin parameters: skin hydration (corneometer) and transepidermal water loss (TEWL).



Up to 77% hydration boost by combining **HYA-ACT™ S (0.15%)** to **HYA-ACT™ M (0.15%)**.



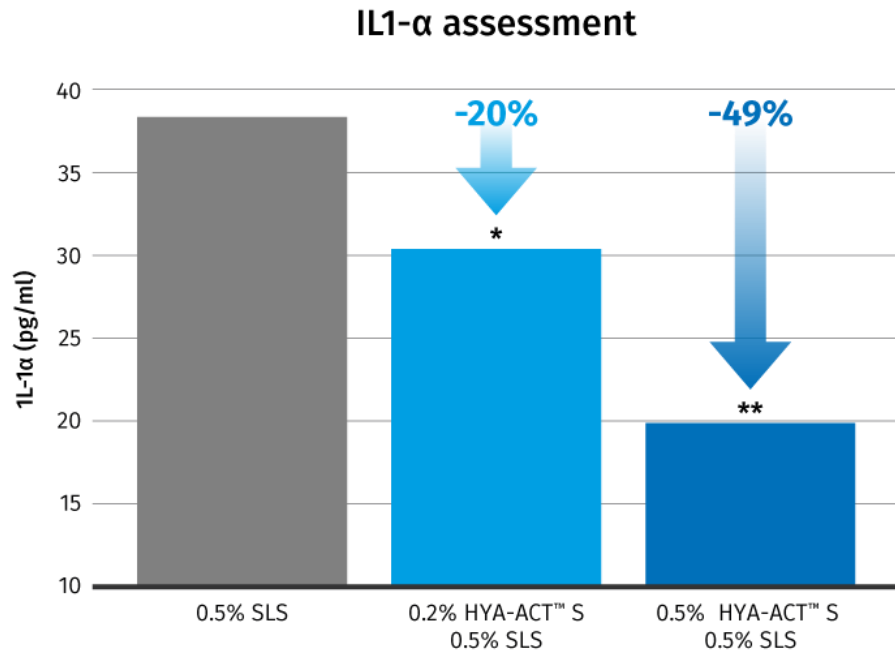
**HYA-ACT™ S (0.15%)** and **HYA-ACT™ M (0.15%)** fortify the skin's natural barrier, with an up to 32% reduction in TEWL.

# HYA-ACT™ S

## Calms reddened skin *in vitro*

Epidermal skin models were treated topically with **0.5% Sodium Lauryl Sulfate (SLS)**, a mixture of **0.2% HYA-ACT™ S + 0.5% SLS** and a mixture of **0.5% HYA-ACT™ S + 0.5% SLS**.

The effects on the inflammatory marker IL-1α were evaluated using ELISA assay.



\*:  $p < 0.05$ , \*\*:  $p < 0.01$ , \*\*\*:  $p < 0.001$  compared with 0.5% SLS

- **HYA-ACT™ S** calms reddened skin by inhibiting IL-1α\* induced by Sodium Lauryl Sulfate significantly *in vitro*
- Up to 49% significant reduction of IL-1α

\*IL-1α (Interleukin 1 alpha ) is a master regulator of inflammation and is associated with skin redness

# HYA-ACT™ XS (Very Small Molecular Weight)

## ID Card

|             |                                                                                                                                                                                                                                                                                                                                                               |                                          |                                                  |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------|
| INCI NAME:  | Hydrolyzed Hyaluronic Acid                                                                                                                                                                                                                                                                                                                                    |                                          |                                                  |
| TECHNOLOGY: | Very small molecular weight hyaluronic acid of 37 – 56 KDa, obtained by bio-fermentation.<br>Derived from sweet corn seeds<br>GMO free<br>100% natural origin (ISO 16128)                                                                                                                                                                                     |                                          |                                                  |
| TECHNICAL:  | Form: Off-white powder to granules<br>pH of use: 4.0-11.0                                                                                                                                                                                                                                                                                                     | Use level: 0.01-1%<br>Preservative: free | Solubility: Quickly and completely water soluble |
| BENEFITS:   | <ul style="list-style-type: none"><li>• Provides skin with a continuous burst of intense hydration and plumps out fine wrinkles*</li><li>• Improved skin's elasticity after just 15 days*</li><li>• Suitable for all kinds of facial and body care leave-on and rinse-off hydration products</li><li>• Recommended for anti aging serums and creams</li></ul> |                                          |                                                  |

REGISTRATION  
CERTIFICATION



Raw material verified  
by ECOCERT  
GREENLIFE, conform to  
the COSMOS Standard

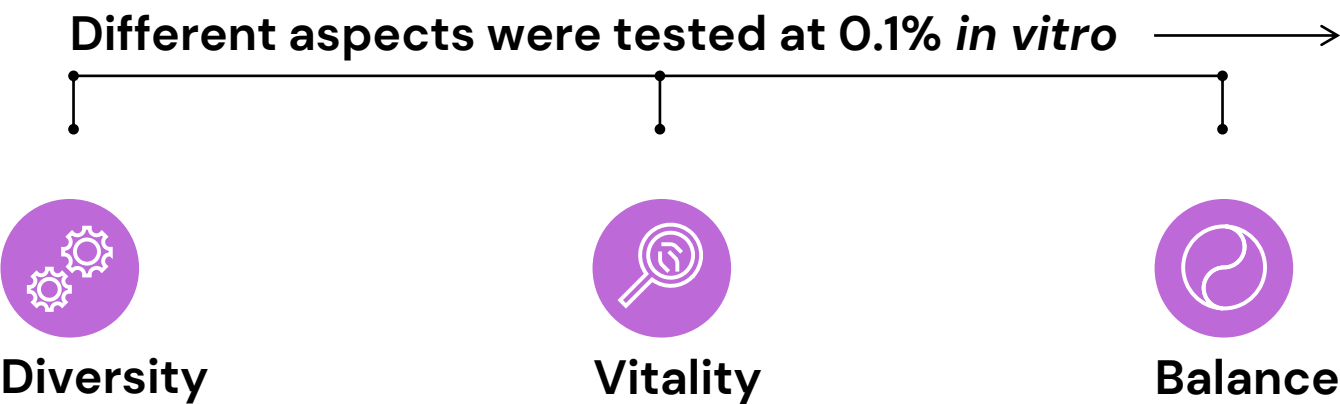


\* in vivo

# HYA-ACT™ XS

Certified as Microbiome-friendly

Tested according to MyMicrobiome Standard 18.10\*



**HYA-ACT™ XS**  
respects the natural  
diversity of the skin  
microbiome

**HYA-ACT™ XS**  
doesn't interfere with  
the growth behaviour  
of the natural skin  
microbiome

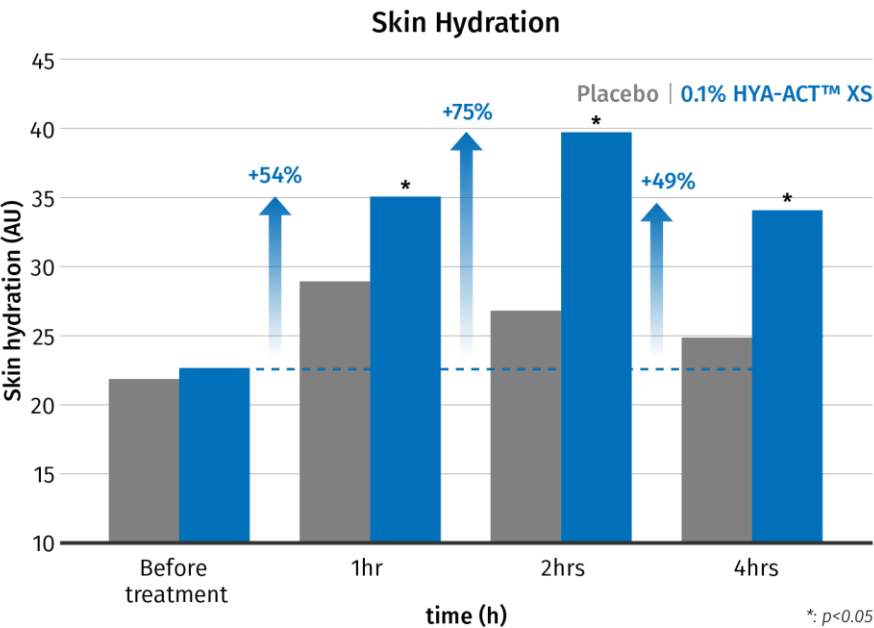
**HYA-ACT™ XS**  
respects the balance between skin-friendly  
bacteria such as *Staphylococcus  
epidermidis* and skin-harmful bacteria such  
as *Staphylococcus aureus*

\* <https://www.mymicrobiome.info/mymicrobiome-standard-18-10-tests-skin-microbiome-friendly.html>

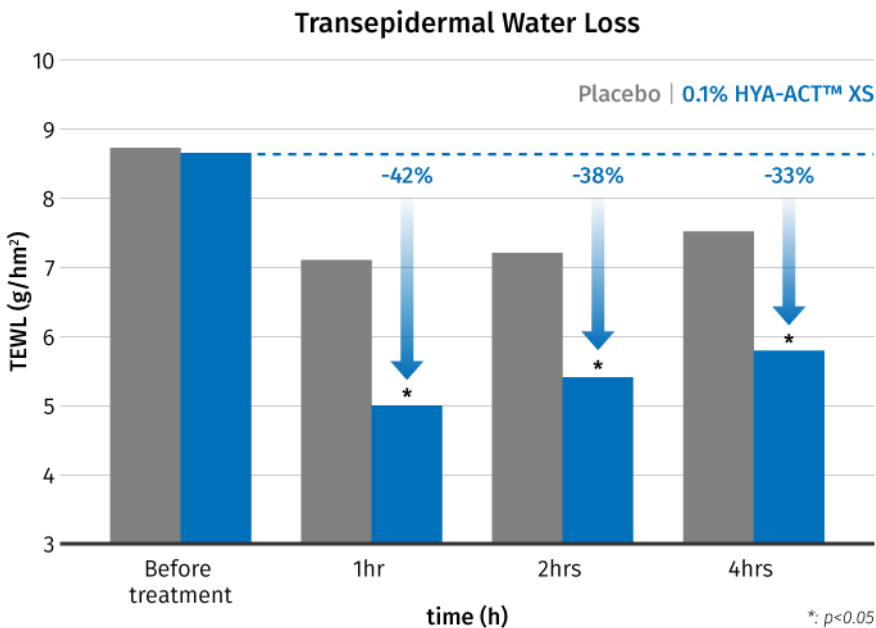
# HYA-ACT™ XS

Provides intense hydration and prevents water loss

**Test protocol:** 20 female volunteers; application: single application, inner forearm; test products: cream (placebo), cream with **0.10% HYA-ACT™ XS**; measurement time points 1h, 2h and 4h; skin parameters: skin hydration (corneometer) and transepidermal water loss (TEWL)



Provides skin with a continuous burst of intense hydration.

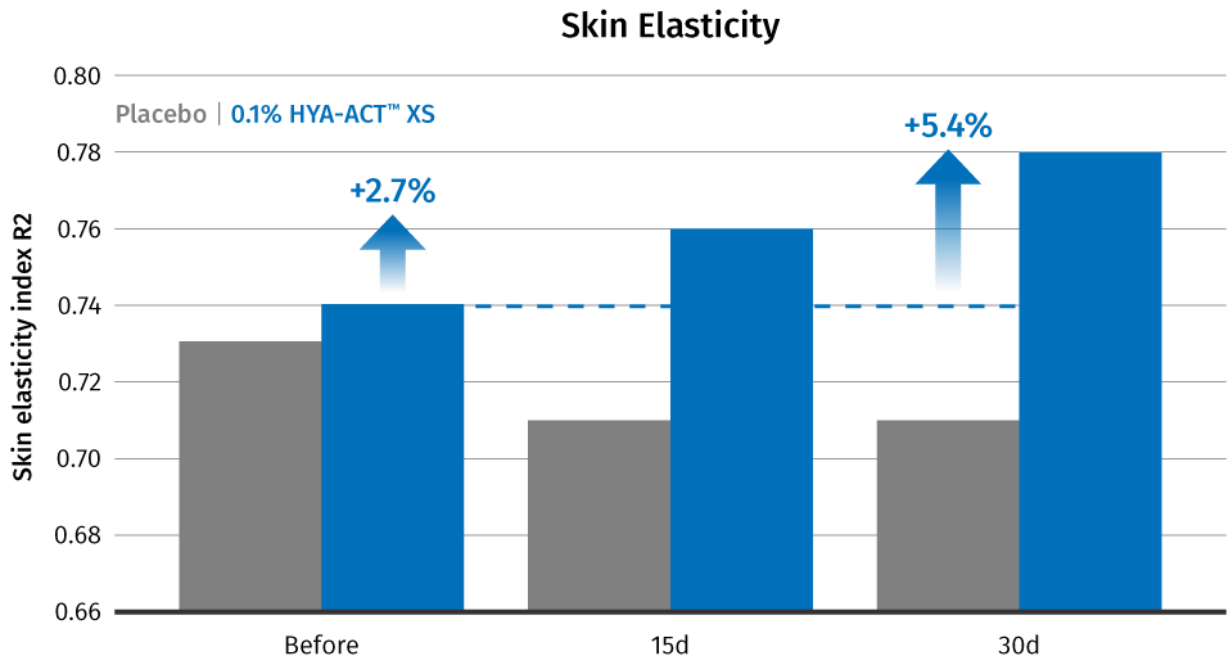


Prevents water loss, with an up to 42% reduction in TEWL.

# HYA-ACT™ XS

## Improves skin elasticity after just 15 days

**Test protocol:** 30 female volunteers; application: twice daily application, face; test products: cream (placebo), cream with **0.1% HYA-ACT™ XS**; measurement time points: before and after 15 and 30 days of application; analysis: cutometry (skin elasticity) (MPA 580 Courage & Kazaka)

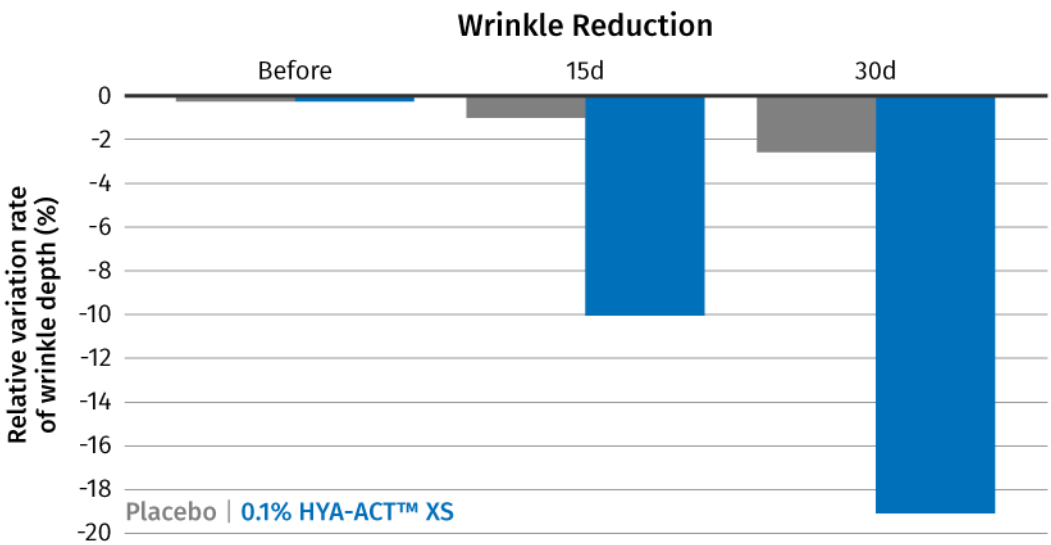


**HYA-ACT™ XS** effectively improves skin elasticity after 15 and 30 days of treatment.

# HYA-ACT™ XS

## Plumps out fine wrinkles

Efficacy study of a cream containing **0.1% HYA-ACT™ XS**, the left faces of 30 volunteers were applied placebo samples, and the right faces were applied **HYA-ACT™ XS (0.1%)** creams; the trial time was 30 days, and test products were used twice per day, test parameters: wrinkle depth measured by optical 3D skin measuring device (Primos).



**HYA-ACT™ XS** reduces the appearance of wrinkles after 15 and 30 days of treatment.

### Visible wrinkle-decreasing effect



After 30 days of application the appearance of crow's feet wrinkles is visibly reduced.

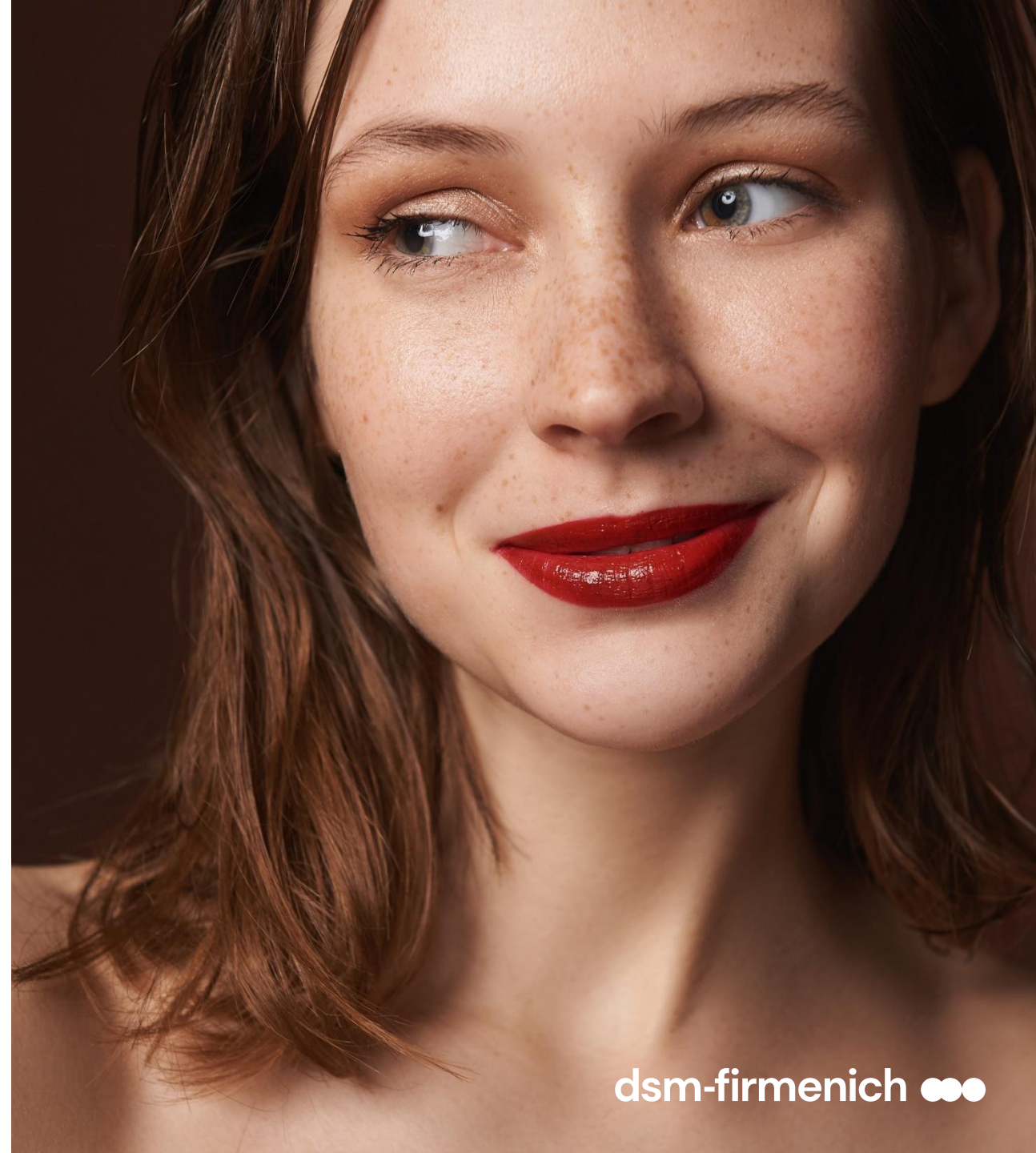
## **HYA-ACT™ IN & ON**

### **Wrinkle Filler Serum**

This lightweight serum contains a balanced mix of **HYA-ACT™ M** (0.5%), **HYA-ACT™ S** (0.5%) and **HYA-ACT™ XS** (0.5%) combined with **SYN®-HYCAN CB**, our unique peptide that together with **Vitamin B12 cryst Food Grade** work to smooth wrinkles and provide more youthful-looking skin from within.

The ultimate beauty boost, **HYA-ACT™ IN & ON** plumps-tired skin and delivers intense hydration, a strong skin barrier, and a vibrant complexion.

**HYA-ACT™ IN & ON** melts into the skin on contact imparting a subtle sheen.



# HYA-ACT™ IN & ON

## Wrinkle Filler Serum

99,2% Natural Origin\*

| Phase | Ingredients                  | INCI name                                                                                  | %w/w   |
|-------|------------------------------|--------------------------------------------------------------------------------------------|--------|
| A     | Water Dem.                   | Aqua                                                                                       | 89.275 |
|       | Sodium Gluconate granular    | Sodium Gluconate                                                                           | 0.200  |
|       | Dermosoft® Octiol            | Caprylyl Glycol                                                                            | 0.200  |
|       | Eumulgin CO 60               | PEG-60 Hydrogenated Castor Oil                                                             | 0.300  |
| B     | Propanediol                  | Propanediol                                                                                | 3.000  |
|       | Cosphaderm Pentiol natural   | Pentylene Glycol                                                                           | 3.000  |
|       | SYN®-HYCAN CB                | Glycerin, Aqua, Magnesium Chloride, Tetradecyl Aminobutyroylvalylaminobutyric Urea Acetate | 2.500  |
| C     | HYA-ACT™ M                   | Sodium Hyaluronate                                                                         | 0.500  |
|       | HYA-ACT™ S                   | Sodium Hyaluronate                                                                         | 0.500  |
|       | HYA-ACT™ XS                  | Hydrolyzed Hyaluronic acid                                                                 | 0.500  |
| D     | Vitamin B12 cryst food grade | Cyanocobalamin                                                                             | 0.005  |

SK-E-101690-14

- Procedure:**

  1. Prepare Phase A under stirring until homogeneous.
  2. Prepare Phase B and add it into Phase A under stirring.
  3. Add ingredients of Phase C one by one into Phase A+B under stirring until homogeneous.
  4. Prepare Phase D and add it into the formulation.
  5. Adjust pH to 5.5 with Phase E if necessary.
- Technical Data:**

pH: 5.5

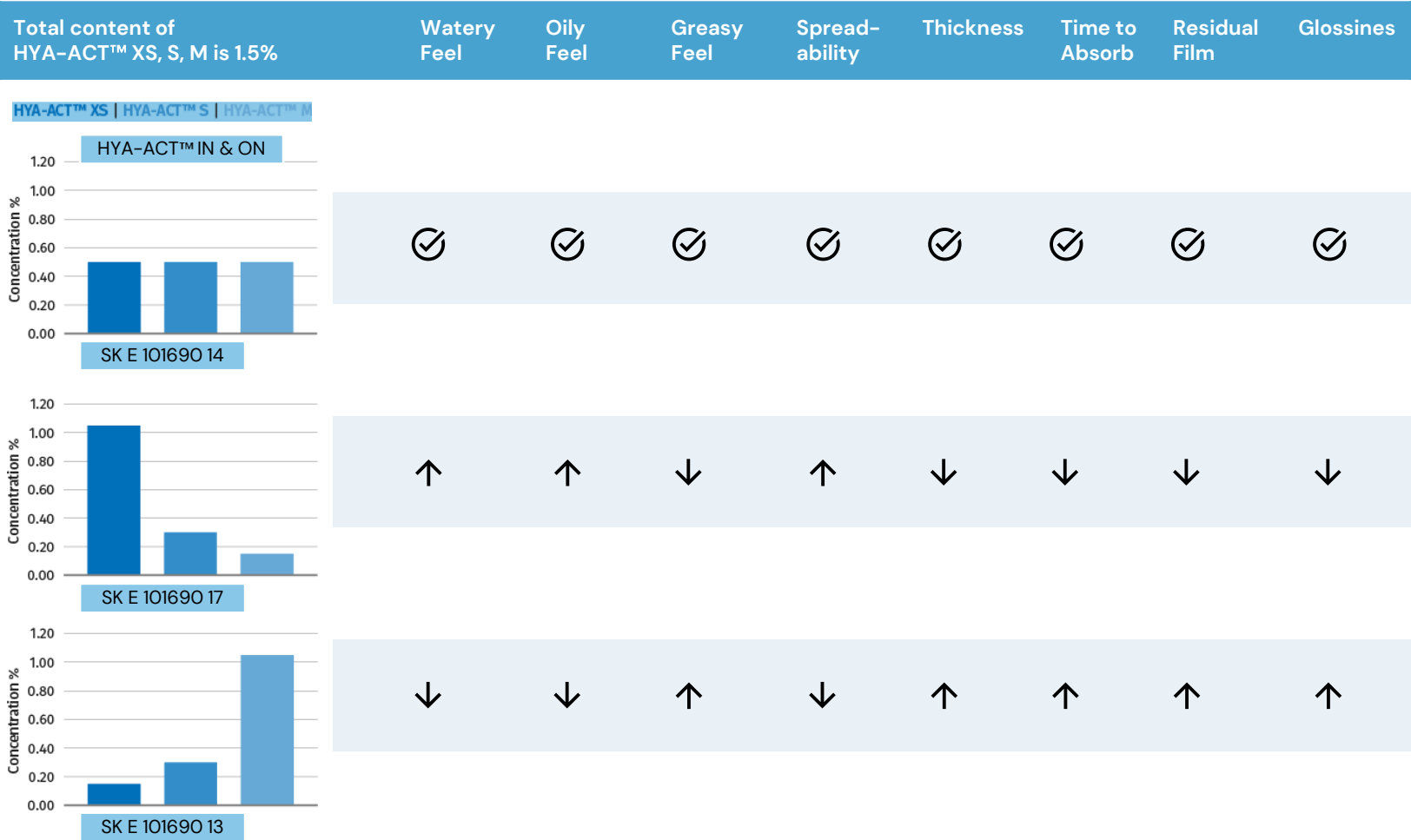
Viscosity (spindle RV-3/10 rpm): 1800 mPa.s

38 The formulation fulfils the 3 months stability at 4°C, 40°C, 50°C, room temperature and daylight.  
 \*Natural origin content calculated according to ISO 16128 by including formulation water  
 See disclaimer Guide Formulations



# HYA-ACT™ IN & ON Wrinkle Filler Serum

## Efficacy with an ideal sensory profile



Benchmark for the texture: <https://www.loreal-paris.co.uk/revitalift/filler-renew/hyaluronic-acid-anti-wrinkle-serum>

- Thanks to dsm-firmenich sensory expertise, **different content of HYA-ACT™ XS, S, M has different sensory properties on top of different skin benefits.**
- HYA-ACT™ IN & ON the formula with **a ratio 1:1:1 of HYA-ACT™ M, S, XS has a well-balanced sensory.** It melts into the skin on contact imparting a subtle glossiness (SK E 101690 14).
- **Higher content of HYA-ACT™ XS** vs. HYA-ACT™ M leads to more fluid serum and lighter feeling (SK E 10169017).
- **Higher content of HYA-ACT™ M** vs. HYA-ACT™ XS leads to more textured serum and richer feeling (SK E 101690 13).

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