

HYALURONIC ACID

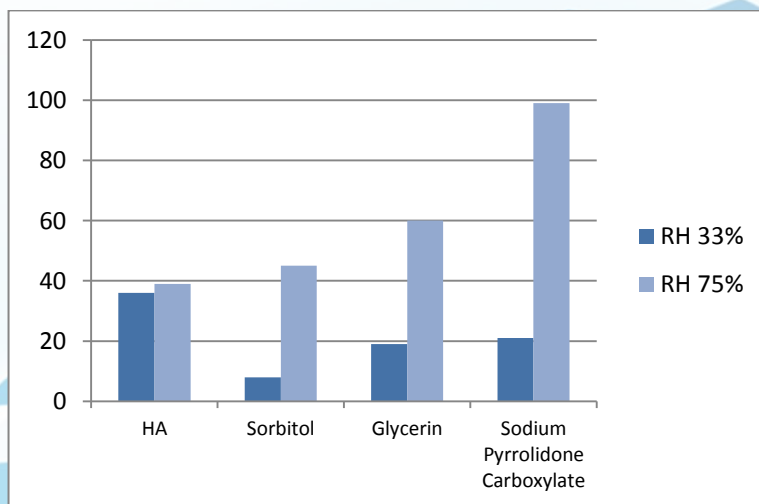
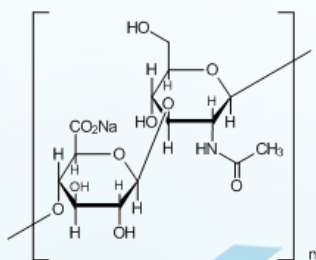
ARG-HA Hyaluronic Acid (sodium salt) is a high purity anti-aging compound. Hyaluronic acid (HA) occurs naturally as part of the skin's cellular matrix and is responsible for preserving healthy moisture levels, maintaining cell structure, keeping skin smooth and plump, regulating healing and upholding the skin's defense against environmental damage. As we age, the levels of a HA diminish, leaving skin prone to dryness, irritation and wrinkling.

HA may be applied topically, by itself or in combination with other ingredients, to help rejuvenate skin for a softer, more youthful complexion; improving elasticity and smoothness, plumping cells to reduce the appearance of fine lines and wrinkles, and restoring moisture balance for improved cellular activity, keeping the skin healthy and resilient.

- Humectant
- Moisturizing/Hydrating
- Healing
- Biocompatible
- Firming
- Smoothing

PROPERTIES

This linear, high molecular weight mucopolysaccharide is composed of thousands of repeating disaccharide units of D-glucuronic acid and N-acetyl-D-glucosamine manufactured via a natural fermentation (non-animal origin) process.



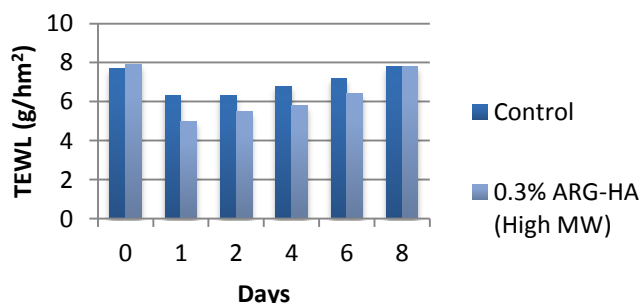
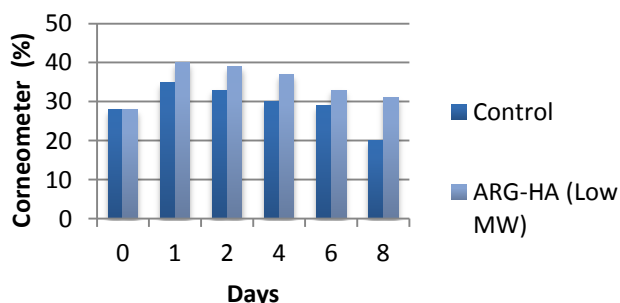
Compared to other humectants, sodium hyaluronate is less affected by the environment, as it has the highest hygroscopic capacity in relatively low humidity. Conversely, it has a very low hygroscopic capacity in relatively high humidity.

HYALURONIC ACID

AVAILABLE GRADES

	ARG-HA	ARG-HA (Low MW)	ARG-HA 1% (with Argan-O-Cide)	ARG-HA 1% (with Glydant Plus)
INCI Name	Sodium Hyaluronate	Sodium Hyaluronate	Water (and) Sodium Hyaluronate (and) Caprylyl Glycol (and) Phenoxyethanol (and) Isopentyldiol	Water (and) Sodium Hyaluronate (and) DMDM Hydantoin (and) Iodopropynyl Butylcarbamate
CAS Number(s)	9067-32-7	9067-32-7	7732-18-5, 9067-32-7, 1117-86-8, 122-99-6, 2568-33-4	7732-18-5, 9067-32-7, 6440-58-0, 55406-53-6
Appearance	Fine, white powder	Fine, white powder	Clear, colorless liquid	Clear, colorless liquid
Hyaluronic Acid	≥91.0%	≥91.0%	1%	1%
Glucuronic Acid	≥44.0%	≥44.0%	≥ 4.5 mg/ml	≥ 4.5 mg/ml
pH	6.0-7.5	6.0-7.5	6.0-7.5	6.0-7.5
Molecular Weight	(0.5~2.5)×10 ⁶	(0.1~0.5)×10 ⁶		
Loss on drying	≤10.0%	≤10.0%		
Transparency	≥99.0%	≥99.0%	≥97.0%	≥97.0%
Protein	≤0.05%	≤0.05%	≤0.002%	≤0.002%
Kinetic Viscosity	N/A	N/A	≥20000mPa.s	≥20000mPa.s

Low molecular weight HA absorbs readily into the skin, penetrating and nourishing skin from the inside. High molecular weight HA has good lubricity and film-forming properties. When used in personal care applications, high molecular weight HA reduces trans-epidermal water loss (TEWL) resulting in skin plumping and a younger, dewy looking complexion.



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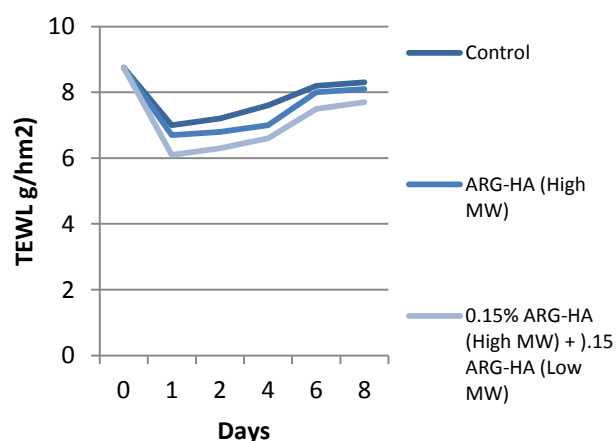
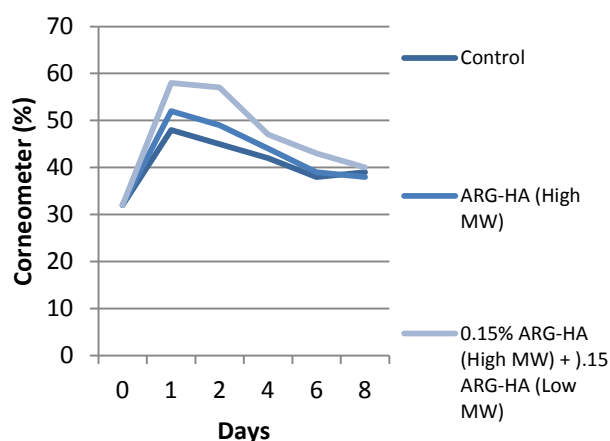
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FORMULATION GUIDELINES

Application	Products	Dosage	Usage
Sun Care	Creams ,lotions, essence, gels, etc.	0.1% - 0.5% for HA powder	Soluble in water
Makeup	Lipstick, eye shadow, Foundation, etc.		Heat may be used to dissolve high MW HA
Cleansing	Facial cleanser, body wash, etc.	10% - 50% for HA solution	
Hair Care	Shampoo, conditioner, styling gel, hair restorer, etc.		

When different molecular weight grades are used together in a formulation, they work synergistically to activate global moisture; improving skin hydration and reducing transepidermal water loss.



The information provided is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

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