ARGAN Co.

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.

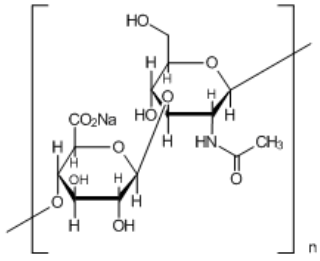
Approved by ECOCERT RAW MATERIAL

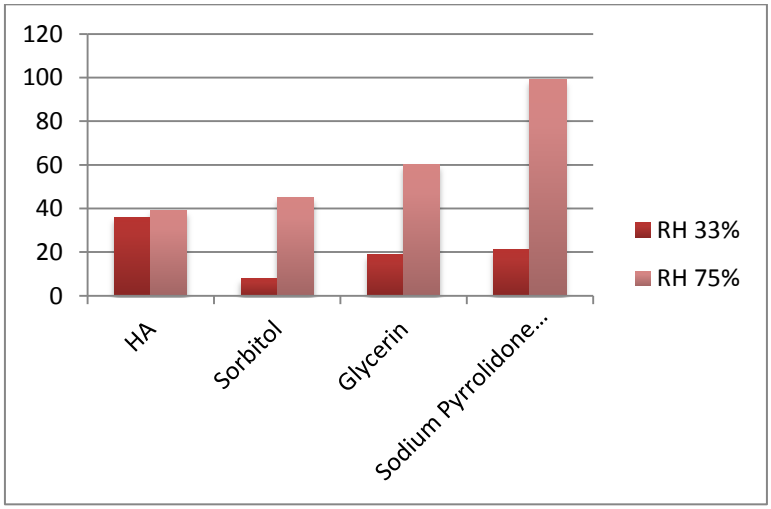
COSMOS APPROVED

- 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.





19151 Parthenia St., Unit E, Northridge, CA 91324 USA Tel: 818-709-7070. Email info@arganco.com

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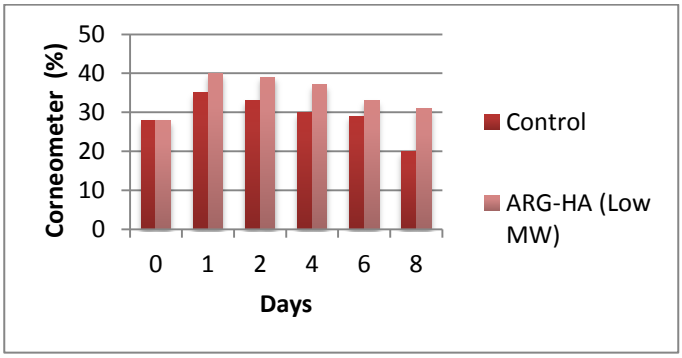
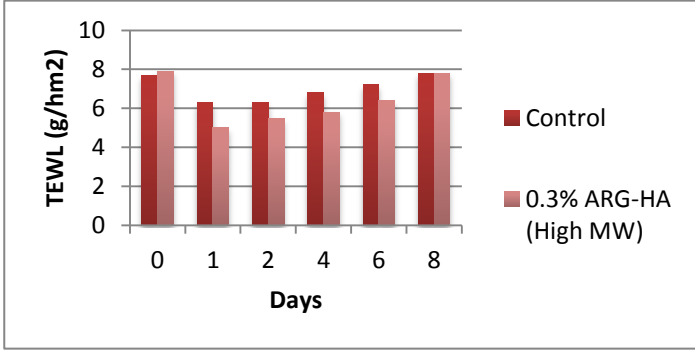
AVAILABLE GRADES	ARG-HA	ARG-HA (Low MW)	ARG-HA 1% (with Argan-O-Cide)
INCI Name	Sodium Hyaluronate	Sodium Hyaluronate	Water (and) Sodium Hyaluronate (and) Caprylyl Glycol (and) Phenoxyethanol (and) Isopentyldiol
CAS Number(s)	9067-32-7	9067-32-7	7732-18-5, 9067-32-7, 1117-86-8, 122-99-6, 2568-33-4
Appearance	Fine, white powder	Fine, white powder	Clear, colorless liquid
Certifications	Cosmos, Ecocert	Cosmos, Ecocert	--
Hyaluronic Acid	≥91.0%	≥91.0%	1%
Glucuronic Acid	≥44.0%	≥44.0%	≥ 4.5 mg/ml
pH	6.0-7.5	6.0-7.5	6.0-7.5
Molecular Weight	$(0.5\sim2.5)\times10^6$	$(0.1\sim0.5)\times10^6$	
Loss on drying	≤10.0%	≤10.0%	
Transparency	≥99.0%	≥99.0%	≥97.0%
Protein	≤0.05%	≤0.05%	≤0.002%
Kinetic Viscosity	N/A	N/A	≥20000mPa.s

EFFICACY

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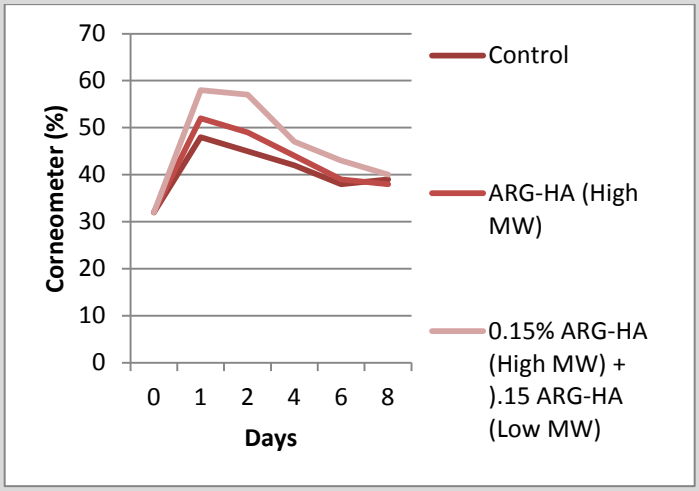
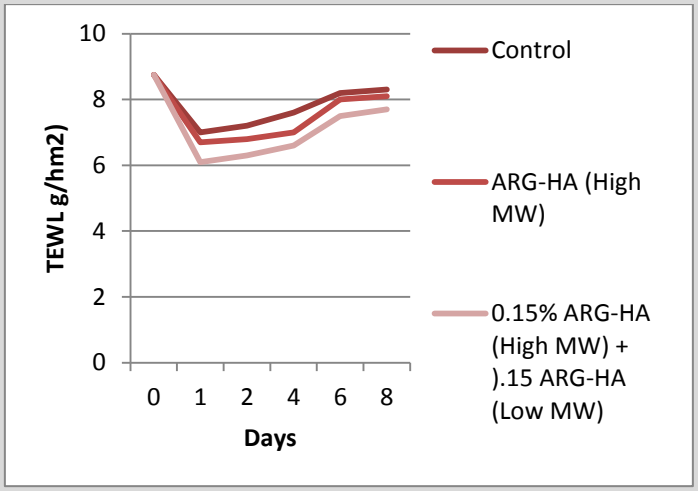
When different molecular weight grades are used together in a formulation, they work synergistically to activate global moisture; improving skin hydration and reducing transepidermal water loss.





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.		
Cleansing	Facial cleanser, body wash, etc.	10% - 50% for HA solution	Heat may be used to dissolve high MW HA
Hair Care	Shampoo, conditioner, styling gel, hair restorer, etc.		

January 11, 2019 rev.