HyaMax™
Clinic supported natural Hyaluronic acid

We know how to keep you run ahead of the time!

www.fenchem.com
Hyamax™ is the standardized natural Hyaluronic acid available in different salt form from Fenchem. It has the unique structure of mucopolysaccharide with extremely large molecule composed of repeat disaccharide units of Glucuronic acid and N-acetyl glucosamine, which can bind 1000 times its own weight of water for lubricating the movable parts of the human body, especially joints and muscles, moisturizing the skin, and carrying the nutrition to heal the wound.

**Structure**

**Product name:** Sodium Hyaluronate  
**Molecular formula:** (C₁₄H₂₈NO₁₁Na)n  
**Molecule weight:** 8,000–3,000,000 Da  
**CAS number:** 9067-32-7

Where it located in our body?
- Cartilage/joints
- Tendons and Ligaments / Connective tissue
- Scalp Tissue and hair Follicles
- Skin
- Gum Tissue
- Lips
- Eyes
- Synovial membrane

Hyaluronic acid widely exists in the extracellular space of human and animal, like vitreum, umbilical cord, skin, and joints synovia.

**Hyaluronic acid & Health**

*Joints*
Hyaluronic acid is used to improve lubrication and the cartilage structure of joints and make it much more tough and flexible. It acts as a cushion for bones. With its high lubricant effect, it resists compression and allows the joints and skin to bear weight, withstand tension and endure abuses. In the meanwhile, it carries nutrition to the cartilage and removes waste from joint capsule. Thus it keeps our joints health and strong.
Clinical supported, natural sourced hyaluronic acid - HyaMax™

Produced by microbial fermentation, HyaMax™ is totally free of any risk of BSE, Allergen and Virus. Meanwhile, it can target the request for different molecular weight for various potential applications of HA.

HyaMax™ of high purity and fast dissolution is obtained with special process, which makes it applied widely and keeps it consistent stability in formulations and storage.

The clinical supported HyaMax™ is expected to contribute to much effective formulations with high bioactivity in the whole industry.

It is available for
* Non-GMO certified
* Kosher certified
* Halal certified
* ISO and HACCP certified

How does hyaluronic acid work comparing to glucosamine or chondroitin?

Glucosamine is a precursor of hyaluronic acid. Hyaluronic acid in turn makes the synovial fluid. Glucosamine must to combine with a glucoronic acid molecule to make hyaluronic acid. Often times the body is not able to join these two molecules together and the the production of the much needed hyaluronic acid is never achieved. By administering hyaluronic acid, you take away the risk of this integral process not happening and may see results with hyaluronic acid that you did not see with glucosamine or chondroitin.

● Skin
Skin is the most important origin of Hyaluronic acid in our body, roughly 50% of it is found in the skin. Hyaluronic Acid and Collagen are vital to maintaining the skin’s layers and structure. It is the collagen that gives the skin its firmness but it is the Hyaluronic Acid that nourishes and hydrates the collagen. Contributing to its amazing moisture ability, Hyaluronic acid acts as a space-filler in dermal layers between skin cells and produce a long-lasting skin enhancement which make skin soft, smooth and elastic, especially for face and lips.

● Wound Healing
HA is a regulator of the process and providing the needed structural nutrition to form a matrix of new tissue. It is a crucial component to skin tissue reconstruction following trauma.

● Eyes
HA with its ability to hold water helps to lubricate and provide moisture to dry eyes.

Fibrillar collagen
and Collagen VI
Elastin
Hyaluronan
Large and small proteoglycans
Fibronectin
Vascular channels
Specification of HyaMax™ - Sodium Hyaluronate:

<table>
<thead>
<tr>
<th>HA Purity (on dry base)</th>
<th>90% min</th>
</tr>
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<tbody>
<tr>
<td><strong>Molecular weight</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SLMW: 8000-50000 Da</td>
</tr>
<tr>
<td></td>
<td>LMW: 0.8 -1.5 Million Da</td>
</tr>
<tr>
<td></td>
<td>MMW: 1.5 -2.0 Million Da</td>
</tr>
<tr>
<td></td>
<td>HMW: 2.0-2.5 Million Da</td>
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</tbody>
</table>

* Food grade
* Cosmetic grade
* Pharmaceutical grade

**Dosage**

**Food grade**: HyaMax™ has been widely used in dietary supplements for joint health and nutricosmetics. The normal recommended dosage is 30 to 80 mg daily based on different needs. Its remarkable bioactivity also enables its use in nutritional beverage with a final concentration of 1.5-2%.

**Cosmetic grade**: HyaMax™ is suitable for use as an active ingredient in cosmetics including skincare, hair care and toiletry. It is often used at an inclusion rate of 0.05-0.5% in formulations.

**Pharmaceutical Grade**: HyaMax™ can be widely used in ophthalmic formulations to remove symptoms of dryness and make eyes lubrication and comfort. The recommended dosage is 0.05-0.5%.

**Storage & Shelf life**

**Storage**: Store in cool & dry place(2°C-10°C) and seal tightly after opening.

**Shelf life**: Keep away from strong light and heat.

2 years when properly stored.

For further information on our products, please contact us:

**Fenchem Enterprises Ltd.**
Address:1911 Fortune Building No.359 Hongwu Road, Nanjing, China 210002
Tel : 86-25-8457-2922 (Head line) 800-828-9738 (Toll free)
Fax : 86-25-8457-4987 86-25-8450-2908
e-mail: sales@fenchem.com sales@fenchemcn.com
website: www.fenchem.com