



Hyaluronic Acid

Hyaluronic acid is a macromolecule that is part of the extracellular matrix and is produced in higher quantities during the proliferation phase of wound healing. Besides providing structural support in the wound, topical hyaluronic acid has been shown to speed healing of skin wounds in animal models. It has also improved healing rate in chronic venous leg ulcerations. Hyaluronic acid plays a role in the inflammatory phase of wound healing by up-regulating the production of pro-inflammatory cytokines as well as enhancing the chemotaxis of fibroblasts to the wound. Low-molecular-weight hyaluronic acid used as a topical cream has been shown to protect newly formed granulation tissue from oxidative damage by functioning as a free-radical scavenger. Finally, hyaluronic acid that is esterified can be produced into molded preparations to fit the shape of the wound and function as a tissue implant to promote healing. The preparation is biodegradable and can be left in the wound, as it promotes healing.

More About Hyaluronic Acid

Hyaluronic Acid is used in some of the top selling commercial products, however, due to its high cost, it is only used in very small concentrations in these products.

"The unique properties of Hyaluronic Acid make it the ideal moisturizer."

Hyaluronic Acid is naturally found in the joints, the deeper layers of skin, the umbilical cord and in fetal skin.

Medical grade Hyaluronic Acid is currently employed to reduce the incidence of post operative adhesions, as a viscoelastic agent in intra-ocular surgery and as a synovial replacement fluid.

The unique properties of Hyaluronic Acid make it the ideal moisturizer. Hyaluronic Acid plays an important role in tissue hydration, lubrication and cellular function, and is able to hold more water than any other natural substance. Its unmatched hydrating properties result in increased smoothness, softening and decreased wrinkles.

Hyaluronic Acid has also been shown to reduce dryness, itching and burning of the skin. It offers an excellent environment for the growth of new cells and healing following skin peeling.

Hyaluronic Acid is a major constituent of the extra-cellular matrix surrounding rapidly dividing cells. It has been shown to be an integral component in the rapid and scar-less wound healing observed in fetal and neonatal organisms. In addition, the cellular actions precipitated by Hyaluronic Acid are integral to the seemingly magical biochemistry of fetal development.

It is well documented that fetal tissues contain large amounts of Hyaluronic Acid and that decreasing Hyaluronic Acid content correlates with aging and wrinkling. Therefore practical attempts to prolong and recapture youth by revitalizing damaged tissue should include this molecule.

*****IMPORTANT INFORMATION ABOUT HYALURONIC ACID PERCENTAGES*****

100% HA solution is considered to be 1% HA by weight because a concentration higher than 1% HA becomes too thick of a gel to pour. Hyaluronic Acid in its 100% form is a powder - or a solid. When mixing an HA solution as offered in our auctions, after 1% HA to 99% distilled water, it begins to become a solid and gets too thick to pour. It should be mixed in room temperatures between 45 - 85 degrees F. If it is hotter than 85 degrees F, the consistency becomes thinner. Most of the serum solutions will also contain Carbomer or another thickener to give the desired consistency. Here is a link to the patent pending in Japan:

<http://www.freepatentsonline.com/20020120132.html>

A word of caution when working with Hyaluronic Acid powder AND HA solution. If you haven't worked with it before, it is almost magical what it can do to revitalize skin. However, it is extremely hygroscopic, meaning that it can absorb and form a gel with an amount of water approaching 1,000 times its weight! We highly recommend that you keep your HA well sealed and only expose it to the air as little as possible until it's time for you to put it in a solution. Another concern is the shelf life of HA once it's been put into solution. Some manufacturers will recommend that you use your solution within 6 months to a year, whereas the HA powder actually has a shelf life of several years if it's kept sealed and air tight. here is also a lot of misinformation out there regarding HA that you should be aware of. HA is frequently sold as a solution with water and designated as 20%, 60%, and sometimes even 100% HA. However, this doesn't mean that a 60% HA solution is 60% HA by weight. What the manufacturer doesn't tell you is that a 100% HA solution is considered to be 1% HA by weight because a concentration higher than 1% HA becomes too thick of a gel to pour. It then has a use rate of .25% - 2% of a total solution or product by weight. The powder is a better buy, but if you do not feel comfortable mixing your own solution, the liquid is the way to go!

Either way, the solution has a use rate up to 2% of the total product, however, I have been applying it directly to my skin with awesome results! HA powder and Carbomer would be an excellent way to go!

REORDER CONTACT: Anita Nelson csr@DNAshopper.com
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