



Letter From The Editor

During the spring and early summer months, exposure to the outdoor environment increases. Sharp changes in temperature and humidity, along with heavier exposure to the sun, often have negative effect on skin, resulting in excessive dryness and photo-damage.

Over the past fifteen years, the cosmetic industry has addressed these dismal effects by developing Daily Defense creams and lotions. The majority of these products are based on UV Filters (UBB&UVA) and *occlusive* moisturizers, but not ingredients with Anti-Wrinkling properties.

Low Molecular Weight Sodium Hyaluronant-200 –The Potent Moisturizer and Wrinkle Reducing Ingredient.

Hyaluronic acid is a naturally occurring polysaccharide consisting of glucuronic acid and N-acetyl glucosamine units. In the human body it is found in high concentrations in the skin (part of the Natural Moisturizing Factor), connective tissues, joints and eye fluids. It functions as a highly effective moisturizer. It has the ability to fill the space between cells, collagen and elastin fibers, acting as a constant lubricant.

With age, the levels of Hyaluronic acid in the body decrease, causing considerable reduction in the moisture binding capacity, resulting in dry skin and wrinkles.

Studies conducted by the Kyowa Hakko company have shown that amino acid – L-Hydroxyproline can impart long lasting moisturization in a *non-occlusive* manner, enhancing the performance of Skin Defense products.

In the current issue, we will review the *in vivo* Anti-wrinkling effects of L-Hydroxyproline by itself and in combination with the new, Low Molecular Weight Sodium Hyaluronate – 200. Both ingredients are natural, non-occlusive and penetrating into the skin, imparting Anti-Aging activity to Skin Care products.

Kyowa-Hakko's Sodium Hyaluronate-200 is a low molecular weight (150,000-250,000 MW), fermentation based form of Hyaluronic acid (natural). The proprietary fermentation process eliminates any risk of TSE contamination (Transmissible Spongiform Encephalopathy).

Due to its low molecular weight, KH-Sodium Hyaluronate – 200 is absorbed through the skin increasing the skin moisture levels, improving the skin smoothness and reducing the fine lines and wrinkles. In addition, it plays a role in enhancing the penetration of other actives into the skin.



L- Hydroxyproline and Low Molecular Weight Sodium Hyaluronate-200 – Effects on Facial Lines and Wrinkles.

Test Objective

Determine the Anti-Wrinkling Effects after seven weeks of treatment

Test Materials

Placebo Cream base; 2.00% Hydroxyproline in a cream base; and 2.00% Hydroxyproline & 1.00% Sodium Hyaluronate – 2.00% in a cream base.

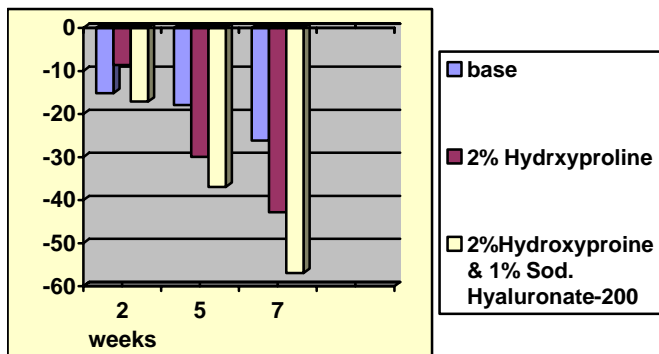
Subjects

Three panels of 15 female volunteers (age 45+), with moderate signs of clinical skin aging (superficial fine line and wrinkles)

Results

1. The addition of 2.00% L-Hydroxyproline to an O/W cream base decreases superficial fine lines by 32% and 44% respectively, after 5 and 7 week of treatment.

Reduction of Superficial Facial Lines



Application

Participants apply the treatment products twice a day (am & pm), after through cleansing to designated sites of the face. Subjects visit the Testing Center at day 0, week 2, week 5 and week 7.

Measurement of Superficial Fine Lines

Line reduction is assessed visually according to the Packman E.W, Gans E.H; J.Soc. Cos. Chem, 29, 70-90, 1978. The shallowness, depth and total number Superficial Fine Lines of each subject is scored.

2. Addition of 1.00% Sodium Hyaluronate-200 (150,000-250,000MW) to the L-Hydroxyproline containing cream, decreases superficial fine lines by 38% and 57% respectively, after 5 and 7 weeks of treatment, suggesting synergy and enhanced penetration into the skin.

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