



Letter From The Editor

A few weeks ago Kyowa Hakko has trademarked KH - L-Hydroxyproline and the Low Molecular Weight KH - Sodium Hyaluronate-200. The new names, **Lumistor™** and **Resilen™** reflect the specific activity of each of these materials.

Lumistor, is a collagen enhancing moisturizer, which imparts Renewed Radiance to skin when applied topically, or taken as an oral supplement. Resilen, provides Long Lasting Moisturization and Lubrication to skin and joints, making them soft and resilient.

Resilen™ (LMW. Sodium Hyaluronate-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.

Combined, Lumistor and Resilen are powerful Anti-aging ingredients.

In the March issue of Aminoscope™ we reviewed the Anti-wrinkling effects of Lumistor by itself, and in combination with Resilen, by measuring the reduction of Superficial Fine lines. In this issue the Wrinkle reduction activity, over a period of seven weeks of application, is quantified by taking Silfo replicas and image analysis.

Kyowa-Hakko's Resilen™ (LMW Sodium Hyaluronate-200) is a low molecular weight (150,000-250,000), 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, **Resilen** 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.



Lumistor™ and Resilen™ Effects on Facial Lines and Wrinkles.

Test Objective

Determine the Anti-Wrinkling Effects after seven weeks of treatment.

Test Materials

Placebo Cream base (#1124-299); 2.00% Lumistor in a cream base (#1124-300); and 2.00% Lumistor plus 1.00% Resilen in a cream base (#1124-301).

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% Lumistor to an O/W cream base decreases lines and wrinkles by 25.3% and 32.7% respectively, after 5 and 7 week of treatment.

Application

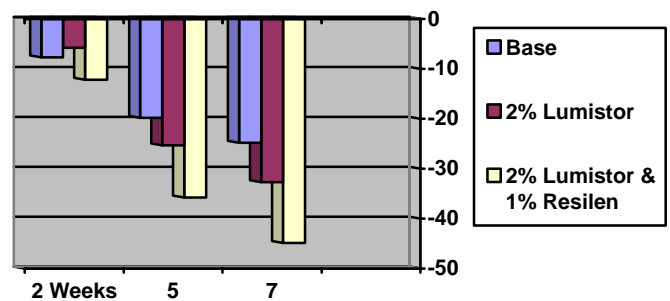
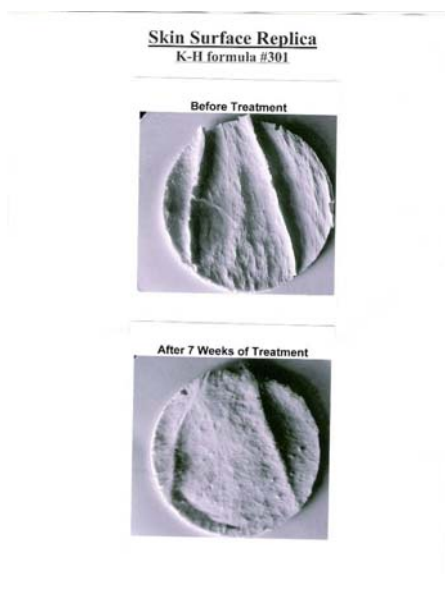
Participants apply the treatment products twice a day (am & pm), after through cleansing to designated sites of the face. Subjects visit the Testing Center at day 0, week 2, week 5 and week 7.

Measurement of Wrinkle Reduction

Line and wrinkle reduction is assessed visually according to the Packman E.W, Gans E.H; J.Soc. Cos. Chem, 29, 70-90, 1978. The depth of the lines and wrinkles of each subject are quantified by Silfo Replicas and analyzed via Image Analysis.

2. Addition of 1.00% Resilen to Lumistor containing cream, decreases lines and wrinkles by 35.8% and 45.0% respectively, after 5 and 7 weeks of treatment, suggesting synergy and enhanced penetration into the skin.

Reduction of Lines and Wrinkles



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