



Letter From The Editor

With summer around the corner, almost everyone's thoughts turn to outdoor activities.

It has already been established that exposure to the sun can result in excessive skin and hair damage. In addition, exposure to toxic materials such as, atmospheric ozone, smoke, carbon monoxide, nitrogen dioxide and sulfur dioxide causes more damage.

The cosmetic industry has enhanced the natural protective properties of skin by incorporating UVB and UVA filters and antioxidants such as vitamin E and vitamin C.

Studies conducted with topically applied vitamin C have shown positive results in protection against environmental stress such as

UV exposure and pollutants. Other studies have confirmed an *increase in collagen formation* after continuous topical application this vitamin.

Unfortunately, most of the vitamin C forms used, are unstable to oxygen and moisture, resulting in very short shelf life of cosmetic products containing this important vitamin.

In the current issue, we will review the Anti-wrinkling effects of Lumistor™ (L-Hydroxyproline), Resilen™-200 (LMW Sodium Hyaluronate) which are *natural, non-occlusive* and *skin penetrating* ingredients in combination with the highly stable (in aqueous systems) vitamin C derivative, Magnesium Ascorbyl Phosphate.

Anti- Wrinkling Effects of Topical Lumistor™ and Resilen™ -200.

The effects of topically applied Lumistor™ (L-Hydroxyproline) and Resilen™-200 (LMW Sod. Hyaluronate) were examined, individually and in combination, with an o/w cream base on a group of female volunteers over the age of 45.

The study, which was conducted over a period of seven weeks, indicated that addition of 2% Lumistor decreased the superficial fine lines by as much as 12% after five weeks, as compared to the base cream and 16% after seven weeks, as compared to the base cream.

Addition of 1% Resilen™ -200 to the 2% Lumistor™ containing cream further decreased the superficial fine lines by 20%, after five weeks of treatment, as compared to the base cream and 30%, after seven weeks of treatment, as compared to the base cream.

The study suggests synergy between Lumistor™ (L-Hydroxyproline) and Resilen™ -200 (Sod. Hyaluronate). In addition, it points to enhanced skin penetration of both ingredients, due to the presence of Resilen™ -200.



Lumistor™, Resilen™-200 and MAP (Magnesium Ascorbyl Phosphate)- Effects on Facial Lines and Wrinkles.

Test Objective

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

Test Materials

2.00% Lumistor™ & 1.00% Resilen™ -200 in a cream base; 2.00% Lumistor, 1.00% Resilen -200 and 5.00% Magnesium Ascorbyl Phosphate in a cream base.

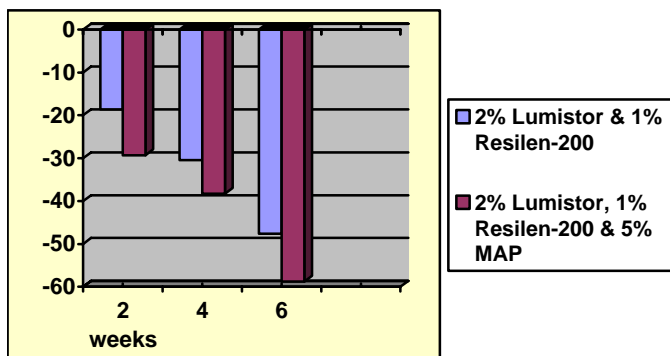
Subjects

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

Results

1. The combination of 2.00% Lumistor™ and 1.00% Resilen™-200 in an O/W cream base, decreases superficial fine lines by 30.4% and 47.6% after 4 and 6 week treatment.

Reduction of Superficial Facial Lines



Application

Participants apply the treatment products twice a day (am & pm), after thorough 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 5.00% Magnesium Ascorbyl Phosphate to the 2.00% Lumistor™ and 1.00% Resilen™ – 200 containing cream decreases the superficial fine lines by 38.3% and 58.8% respectively, after 4 and 6 weeks of treatment, suggesting enhanced activity in the skin.

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