Floraesters K-20W Jojoba in a Face Mask Improves Skin Hydration, Firmness, and Elasticity

Objective:
To evaluate Floraesters K-20W Jojoba for its potential to improve skin hydration and elasticity / firmness when included in a nonwoven face mask.

Method:
Skin hydration measurements (via Corneometer) and elasticity / firmness measurements (via Cutometer) were taken at baseline and after two weeks of once-daily (20 minute) at-home face mask use.

Results:
1% Floraesters K-20W Jojoba in a standard face mask solution increased skin hydration, firmness, and elasticity better than the face mask without (p<0.05). Consumers preferred the face mask with Floraesters K-20W Jojoba 2:1 for both skin hydration and a soothing / calming effect on the skin compared to the face mask without.

Vehicle (%wt/wt): Water (q.s.), Butylene Glycol (4.0%), Glycerin (1.5%), Xanthan Gum (0.12%), Hydroxyethylcellulose (0.06%), Chlorphenesin (0.05%), PEG-4 Laurate (and) Iodopropynyl Butylcarbamate (0.037%), Sodium Hyaluronate (0.016%), and Methylisothiazolinone (0.005%).

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The clinical study of Floratech® test formulation (CTL_13-051) was conducted on a panel of 16 healthy females ranging from 30 to 60 years (mean age = 46) of age with normal skin on the face. The data presented above was obtained from a crossover study where the subjects wore each mask daily for two weeks with a 3 day washout between masks. The Corneometer (hydration) and Cutometer (firmness) measurements were taken under controlled temperature and humidity conditions. This study was double-blind, crossover and randomized. Face masks were manufactured by Maxigen Biotech Inc. (New Taipei City, Taiwan). The Corneometer and Cutometer are products of Courage+Khazaka (Koln, Germany). (Clinical Study 13-051 report available upon request.)

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Floratech Ingredient:
Floraesters K-20W Jojoba