



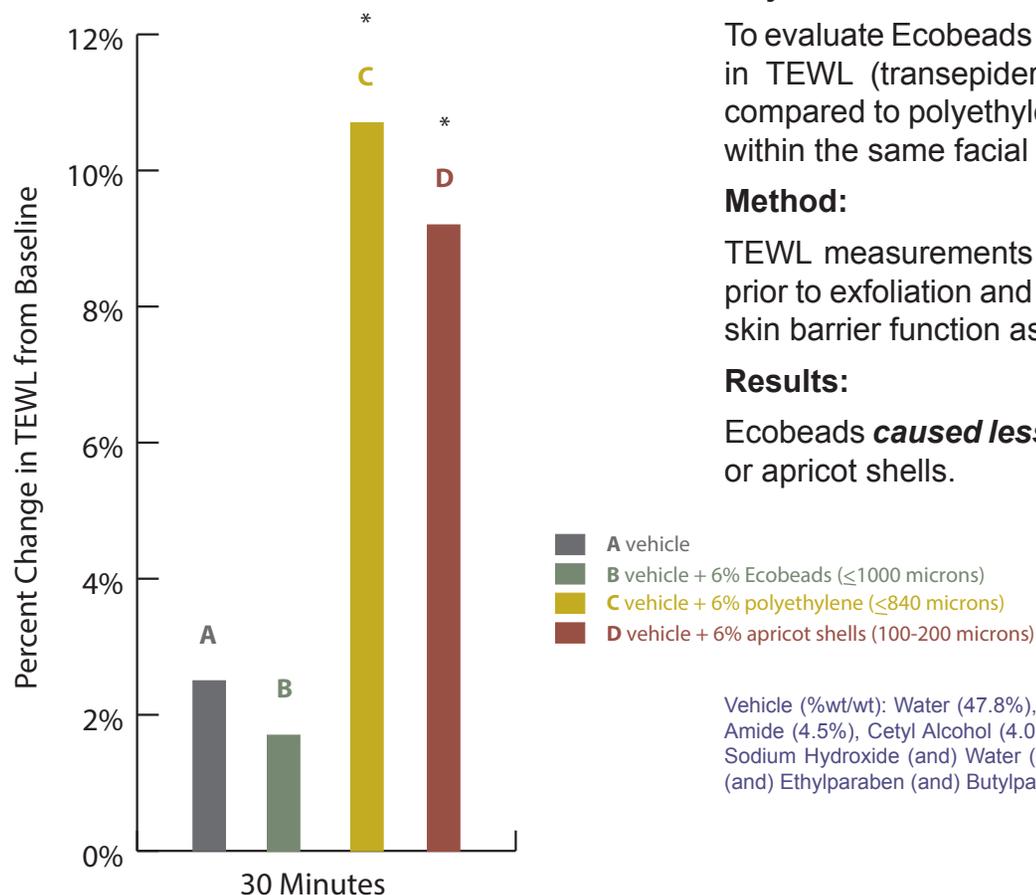
ECOBeads® IN A FACIAL SCRUB CAUSE LESS DISRUPTION TO SKIN BARRIER FUNCTION

CS 15-063



Ecobeads Cause Less Disruption to Skin Barrier Function Than Polyethylene Particles or Apricot Shells When Used in an Exfoliating Facial Scrub

Skin Barrier Disruption



Objective:

To evaluate Ecobeads within a facial scrub for their potential to cause less of an increase in TEWL (transepidermal water loss) during a mechanical exfoliation process, as compared to polyethylene particles or apricot shells (a natural polyethylene alternative) within the same facial scrub.

Method:

TEWL measurements (via Tewameter) were taken on the volar forearms at baseline prior to exfoliation and 30 minutes post-exfoliation. Increases in TEWL indicate reduced skin barrier function as a result of the mechanical exfoliation process.

Results:

Ecobeads **caused less disruption to skin barrier function** than polyethylene particles or apricot shells.

Vehicle (%wt/wt): Water (47.8%), Ammonium Laureth Sulfate (14.5%), Cocamidopropyl Betaine (13.0%), Distearyl Phthalic Acid Amide (4.5%), Cetyl Alcohol (4.0%), Stearyl Alcohol (4.0%), Butylene Glycol (2.0%), PEG-120 Methyl Glucose Dioleate (2.0%), Sodium Hydroxide (and Water (15% solution) (0.9%), Citric Acid (30% solution) (0.8%), Phenoxyethanol (and Methylparaben (and Ethylparaben (and Butylparaben (and Propylparaben (and Isobutylparaben (0.5%), and Disodium EDTA (0.05%).

Floratech Ingredient: ecobeads®

The clinical study of Floratech® test formulation (CTL_14-058) was conducted on a panel of 26 healthy females, ranging from 22 to 53 years of age (mean age = 36). The duration of the study was one day with two one-minute applications of the test article (made with consistent pressure by the clinical research coordinator) and Tewameter (TEWL) measurements were taken under controlled temperature and humidity conditions. This study was double-blind and randomized. Microscrub® 20PC (INCI: Polyethylene) was supplied by Micro Powders and Apricot Exfoliator 200 [INCI: Prunus Armeniaca (Apricot) Seed Powder] was supplied by Lessonia. Tewameter TM300 is a product of Courage+Khazaka. The test article containing 6% polyethylene particles also resulted in statistically significantly ($p < 0.05$) larger reductions in skin barrier function than the vehicle. (Clinical Study 14-058 Phase II report available upon request.)

* Indicates a statistically significant ($p < 0.01$) reduction in skin barrier function.