



# DECREASED SKIN BARRIER DISRUPTION WITH FLORAESTERS K-20W® JOJOBA IN A BAR SOAP

CS 18-112



## Floraesters® K-20W Jojoba Reduced Skin Barrier Disruption Caused by Bar Soap



### Objective:

Evaluate Floraesters K-20W Jojoba to reduce the skin barrier disruption caused by bar soap.

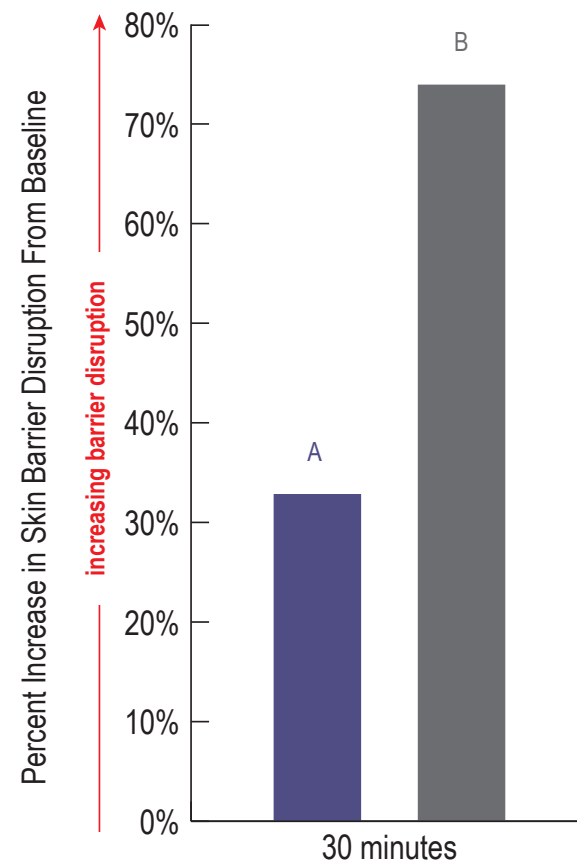
### Method:

Transepidermal water loss (TEWL) measurements using a Tewameter were taken at baseline and 30 minutes after repeated bar soap use (10 applications).

### Results:

The bar soap containing **0.5% Floraesters K-20W Jojoba decreased skin barrier disruption by 56%** compared to the vehicle.

### Skin Barrier Function



■ A - vehicle soap + 0.5% K-20W  
■ B - vehicle soap

**A = vehicle soap + 0.5% Floraesters K-20W Jojoba / B = vehicle soap**

Vehicle Soap (%wt/wt): Soap Noodles (Sodium Palmate, Sodium Palm Kernelate, Sodium Chloride, Glycerin, Tetrasodium EDTA, and Sodium Etidronate) (78.9%), Corn Starch (8.0%), Talc (8.0%), Glycerin (2.0%), Fragrance (1.5%), Sodium Chloride (0.8%), Titanium Dioxide (0.65%), Tetrasodium EDTA (0.1%), and Butylated Hydroxytoluene (BHT) (0.05%).

## Floratech Ingredient: Floraesters K-20W Jojoba

The clinical study of Floratech® test formulation (CTL\_16-074) was conducted on a panel of 19 male and female subjects, ranging from 21 to 56 years of age (mean age = 37). The duration of the study was 4 days (including the 3 day washout) with 10 applications (*i.e.* wet, 10 strokes of soap, 60 second wash by hand, rinse, and pat dry) of each test article made to either forearm. The study was double-blind, randomized, and carried out under controlled temperature and humidity conditions. The Tewameter TM 300 is a product of Courage+Khazaka (Köln, Germany). The test article with Floraesters K-20W Jojoba resulted in a statistically significant ( $p < 0.001$ ) reduction in barrier dysfunction as compared to the vehicle, 30 minutes post test article application. (Clinical Study 17-074 - Phase I report available upon request.)