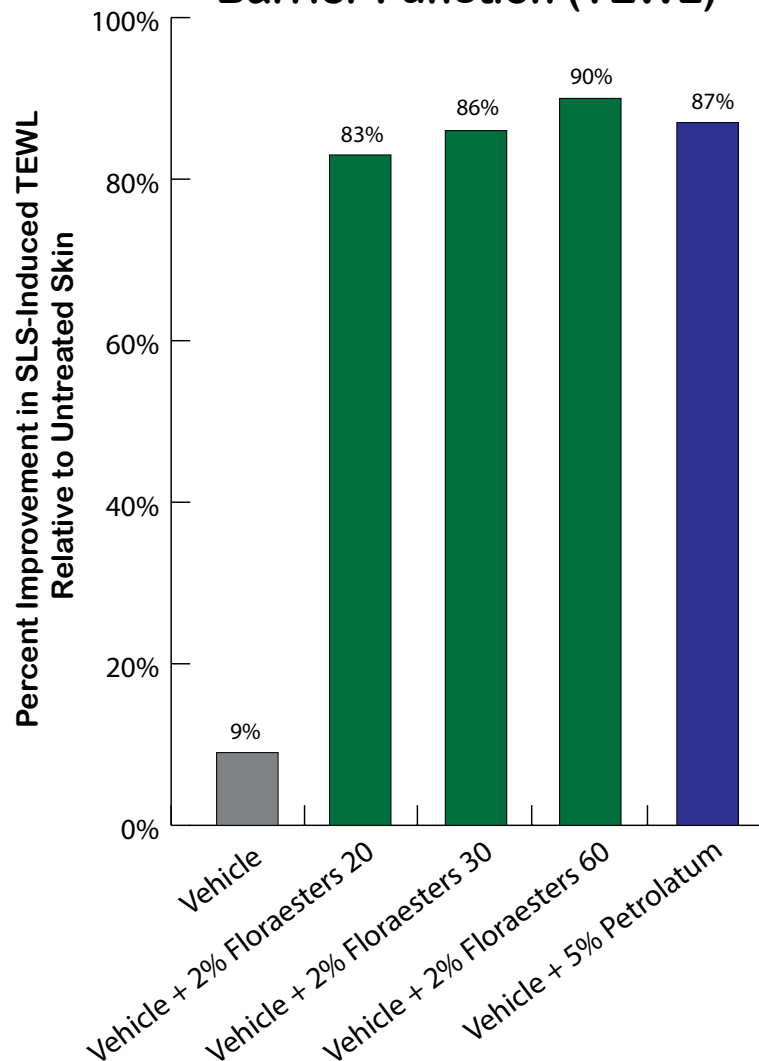




## Floraesters 20, 30, and 60 Mitigate Skin Barrier Disruption

### Barrier Function (TEWL)



2% Floraesters 20, 2% Floraesters 30, and 2% Floraesters 60 performed statistically significantly ( $p < 0.001$ ) better than the vehicle when compared to the untreated skin at the time of evaluation and statistically equivalent to 5% petrolatum at the time of evaluation.



TEWL (transepidermal water loss) was determined using a Tewameter TM300 on normal, untreated forearm skin (see image above). The forearms were then treated with one application of various test articles, followed by exposure to a 0.3% solution (w/w) of SLS (sodium lauryl sulfate) for approximately 12 hours under occlusion using 19mm Hill Top Chambers®. TEWL measurements were again made 30 minutes following chamber removal and percent increases from baseline (untreated skin) were determined. Percent improvement in SLS-induced TEWL could then be determined relative to the untreated skin which was only exposed to the SLS. The data from the study are illustrated in the graph.

**Vehicle:** Water (*q.s.*), Glyceryl Stearate (and) PEG-100 Stearate (4.00%), Cetyl Alcohol (3.00%) Phenoxyethanol (and) Methylparaben (and) Ethylparaben (and) Butylparaben (and) Propylparaben (0.80%), Xanthan Gum (0.20%), and Disodium EDTA (0.03%)

## Floratech Ingredients: Floraesters 20, 30, and 60

The clinical study of Floratech® test formulation (CTL\_10-033) was conducted on a panel of 8 healthy men and women ranging from 31 to 55 years of age with normal volar forearms. The duration of the study was 2 days with 1 application of the test article and TEWL measurements taken under controlled temperature and humidity conditions. This study was double-blind and randomized. Hill Top Chamber is a registered trademark of Hill Top Research, Inc. (Cincinnati, OH). The reference image seen above is for illustration only and was not taken during the actual study. Tewameter is a product of Courage+Khazaka. (Clinical Study 10-033 report available upon request.)