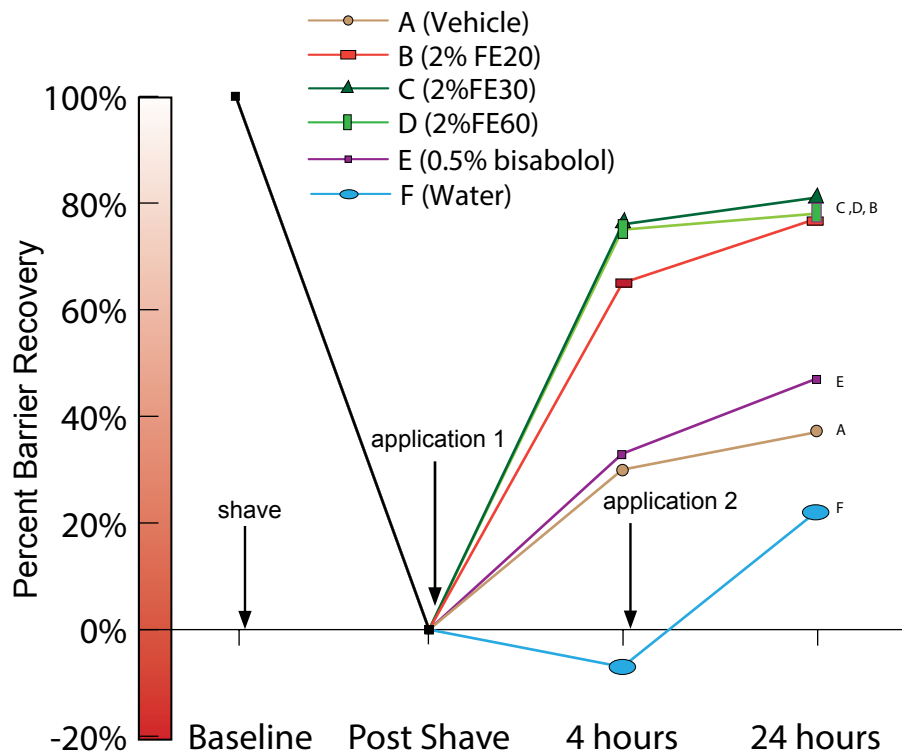


Floraesters 20, 30, and 60 in a Lotion Increases Barrier Recovery Associated with Irritation

Barrier Recovery (TEWL)



A lotion containing 2% Floraesters 20, 2% Floraesters 30, or 2% Floraesters 60 increased barrier recovery as measured by transepidermal water loss (TEWL) better than the vehicle lotion and better than the lotion containing 0.5% of the known anti-irritant bisabolol.¹



Baseline (pre-shave) TEWL measurements (Tewameter) were taken on normal forearms. The forearms were then dry shaved followed by 30 minute post-shave measurements. The test articles were then applied to each test site (2.5mg/cm²). An additional test article application was made 4 hours later. TEWL measurements were repeated 24 hours post test article application.

Floraesters 20, Floraesters 30, and Floraesters 60 produced statistically significant ($p < 0.001$) better percent barrier recovery than the vehicle and water. Floraesters 30 and 60 also produced statistically significant ($p < 0.05$) better percent barrier recovery than 0.5% bisabolol.

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

Vehicle (%wt./wt.): 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%)

The clinical study of Floratech® test formulation (CTL_11-036) was conducted on a panel of 15 healthy men and women ranging from 18 to 55 years of age with normal volar forearms. The data presented above was taken over 2 days with 2 applications of the test article and TEWL measurements taken under controlled temperature and humidity conditions. This study was double-blind and randomized. Percent barrier recovery was determined relative to baseline values [Percent Barrier Recovery = (TEWL Post-Shave - TEWL at time X) / (TEWL Post-Shave - TEWL at Baseline) x 100]. Alpha-Bisabolol Natural was supplied by BASF Corporation and a recommended loading percentage was utilized. Tewameter TM300 is a product of Courage+Khazaka. (Clinical Study 11-036 report available upon request.) The reference image seen above is for illustration only and was not taken during the actual study.

1. STANZYL K, VOLHARDT J. "THE CASE OF ALPHA-BISABOLOL." HANDBOOK OF COSMETIC SCIENCE AND TECHNOLOGY. ED. AO BAREL, M PAYNE, AND HI MAIBACH. NEW YORK, NY: MARCEL DEKKER, 2001. 277-84. PRINT.