

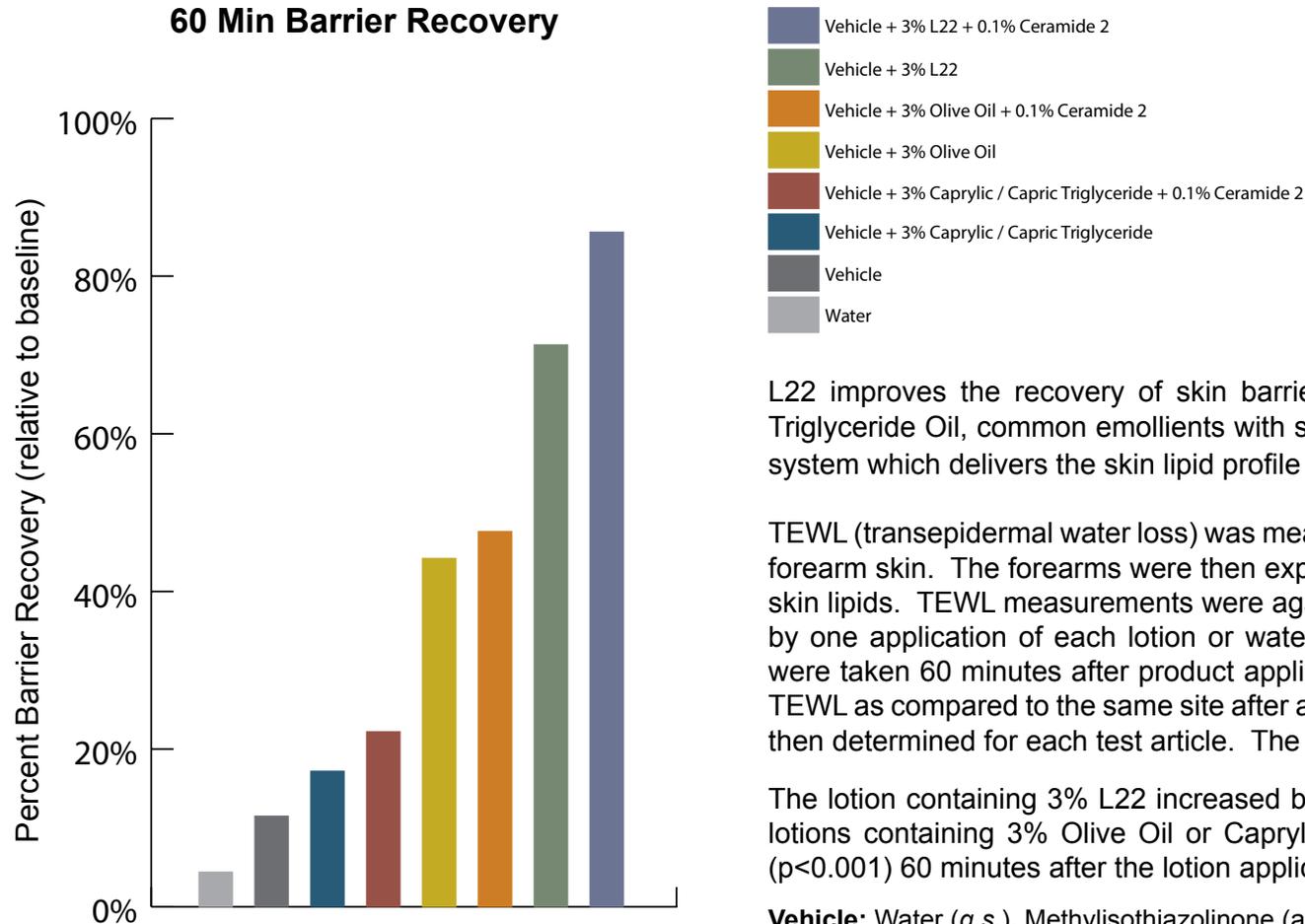
# IMPROVED SKIN BARRIER RECOVERY WITH L<sup>22</sup>® IN A LOTION

CS 12-047



## L<sup>22</sup> Improves the Recovery of Skin Barrier Function Versus Other Common Emollients

### 60 Min Barrier Recovery



L<sup>22</sup> improves the recovery of skin barrier function better than Olive Oil or Caprylic / Capric Triglyceride Oil, common emollients with skin-lipid like components. L<sup>22</sup> is a botanically derived system which delivers the skin lipid profile of a healthy 22 year old.

TEWL (transepidermal water loss) was measured using a Tewameter TM300 on normal, untreated forearm skin. The forearms were then exposed to acetone in order to partially extract the natural skin lipids. TEWL measurements were again taken 30 minutes after acetone extraction, followed by one application of each lotion or water (negative control). Additional TEWL measurements were taken 60 minutes after product application. The percent barrier recovery (*i.e.*, reduction in TEWL as compared to the same site after acetone treatment but prior to test article treatment) was then determined for each test article. The data from the study are illustrated in the graph.

The lotion containing 3% L<sup>22</sup> increased barrier recovery statistically significantly better than the lotions containing 3% Olive Oil or Caprylic / Capric Triglyceride Oil ( $p < 0.001$ ) and the vehicle ( $p < 0.001$ ) 60 minutes after the lotion application.

**Vehicle:** Water (*q.s.*), Methylisothiazolinone (and) Caprylyl Glycol (0.9%), Ammonium Acryloyldimethyltaurate / VP Copolymer (0.6%), Sorbitan (and) Sucrose Cocoate (0.5%), Hydroxyethyl Cellulose (0.3%), and Disodium EDTA (0.1%)

## Floratech Ingredient: L<sup>22</sup>

The clinical study of Floratech® test formulation (CTL\_10-034) was conducted on a panel of 14 healthy men and women ranging from 39 to 61 years of age with normal volar forearms. The duration of the study was 1 day with 1 application of the test article and TEWL measurements taken under controlled temperature and humidity conditions. This study was double-blind and randomized. The reference image seen above is for illustration only and was not taken during the actual study. Tewameter is a product of Courage+Khazaka and Ceramide 2 is a product of Sederma Corporation. (Clinical Study 10-034 - Phase II report available upon request.)