## in vivo Activity | SLM Technology Strengthens the Skin Barrier Function

#### Objective

- To examine the influence of SLM Skin Lipid Matrix® on transepidermal water loss in comparison to a placebo
- To measure if SLM Skin Lipid Matrix® has a strengthening effect on the skin lipid barrier after only one day of treatment

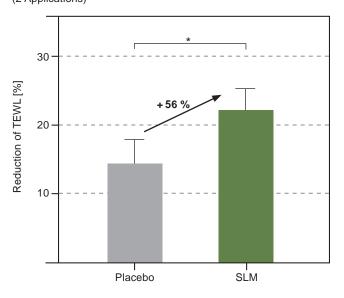
#### Technique

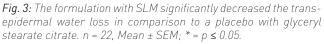
- Damage of the skin barrier by a 24 hours patch with 0.5 % sodium dodecyl sulfate
- Difference of transepidermal water loss (TEWL) by Tewameter® TM 300 [g/(m²h)]; immediately after damage vs. after 1 day of treatment

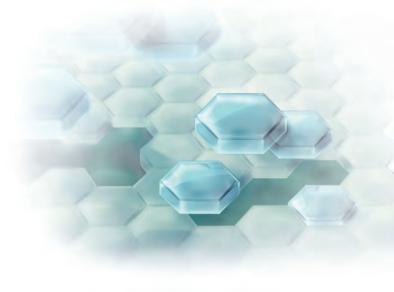
### Study Details

Design	Double-blind, placebo-controlled, randomized <i>in vivo</i> study
Test Panel	22 volunteers with healthy skin, aged between 18 – 55 years
Test Substances	Placebo formulation (3 % glyceryl stearate citrate), verum formulation with SLM (3 % hydrogenated phosphatidylcholine)
Application Site	Volar forearm
Measuring Time	After 1 day of treatment (2 applications)
Analytics	Difference of transepidermal water loss (TEWL) by Tewameter® TM 300 [g/(m²h)] vs. baseline

# Result Improvement of Barrier Function after 1 Day of Treatment (2 Applications)







SLM Skin Lipid Matrix® significantly improves the barrier function of the skin.
SLM Skin Lipid Matrix® has an instant strengthening effect on the skin lipid barrier.