

# CLINICAL STUDY INSIGHTS

## EltaMD® Skin Recovery System



AACComplex  
Technology

**EltaMD® Skin Recovery System** is powered by proprietary, patent-pending AACComplex Technology, a result of 10+ years of research and development and is shown to help:

- ✦ **Repair damaged skin barrier**
- ✦ **Visually reduce redness caused by barrier damage**
- ✦ **Significantly reduce signs of skin irritation**
- ✦ **Renew and restore skin's natural hydration**
- ✦ **Protect skin from future damage**

REPAIR



RENEW



PROTECT

# RANDOMIZED SPLIT-FACE CLINICAL STUDY TO EVALUATE AN AMINO ACID TECHNOLOGY TO IMPROVE SKIN DAMAGE, IRRITATION AND MOISTURIZATION

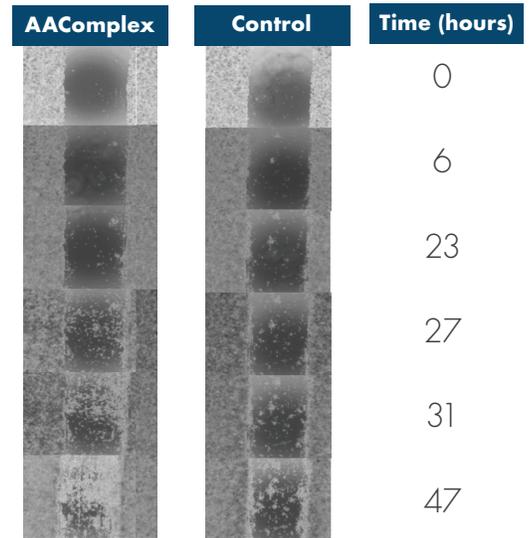
Amino acids are a major component of skin's natural moisturizing factors and play an important role in regulating skin hydration and skin pH to keep skin healthy. AAComplex Technology, comprised of the three key amino acids, taurine, arginine and glycine, demonstrated a variety of skin benefits such as repairing and strengthening the skin barrier, reducing irritation and enhancing hydration, as shown in the following in-vitro and in-vivo clinical studies.

## IN-VITRO SCRATCH ASSAY TEST

AAComplex demonstrated strong cell renewal benefit in HaCaT (human) cells scratch assay compared to control, helping to repair damaged skin faster and more effectively than without it. Within 47 hours, the AAComplex treated skin cells increased significantly vs. the control (untreated cells).

**Figure 1.** Scratch assay to compare AAComplex treated vs control on cell renewal

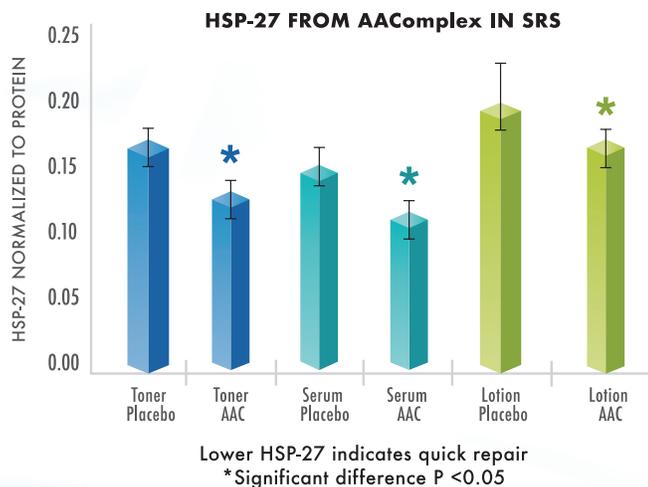
AAComplex Technology is shown to help repair damaged skin faster and more effectively than without it.



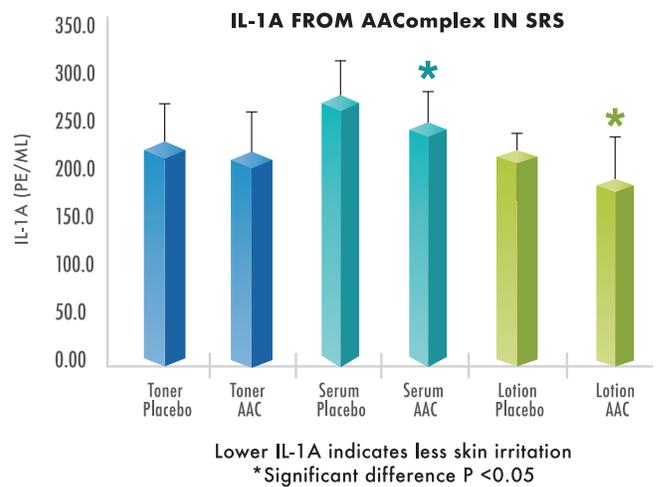
## IN-VITRO 3D RECONSTRUCTED HUMAN TISSUES TEST

AAComplex demonstrated significant skin repair benefit in the three Skin Recovery products versus untreated placebo control by quantifying Heat Shock Protein (HSP-27). **See Figure 2.**

Induced skin irritation with 0.3% SLES (surfactant/irritant) was significantly reduced by Skin Recovery Serum and Skin Recovery Light Moisturizer with AAComplex compared to its own placebo control by quantifying Interleukin-1 alpha (IL-1). **See Figure 3.**



**Figure 2.** HSP-27 from SRS treated vs placebo

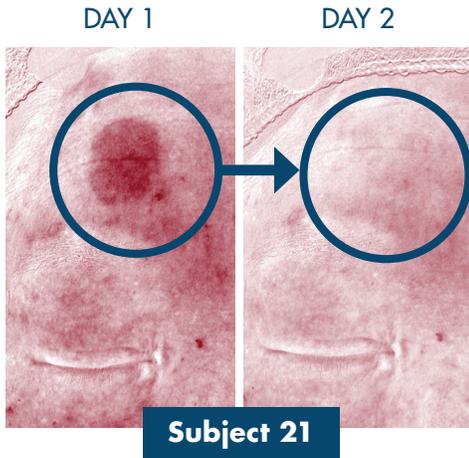


**Figure 3.** IL-1a from SRS treated vs placebo

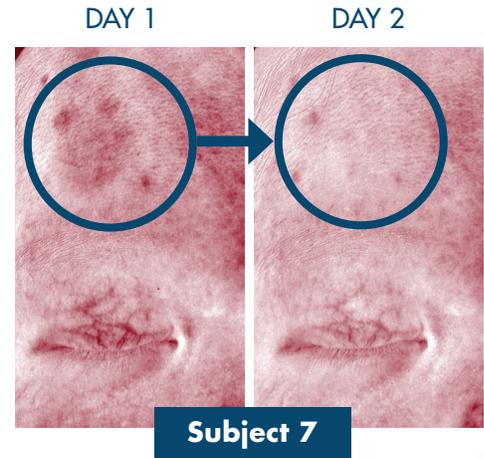
# IN-VIVO CLINICAL STUDY

The in-vivo facial study evaluated the ability of the EltaMD® Skin Recovery System powered by AAComplex Technology to deliver skin benefits by reducing visual redness and skin irritation while increasing moisturization. Study results demonstrated the following skin benefits.

## See the difference - VISIA® Photography

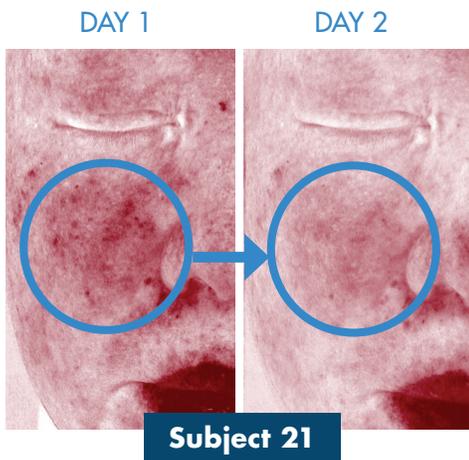


WITH  
SKIN RECOVERY  
SERUM ONLY

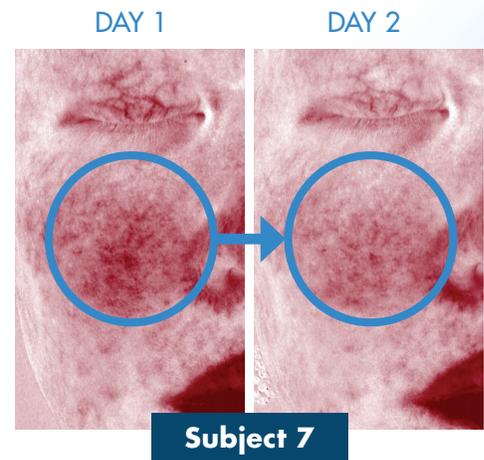


In 24hrs, the EltaMD Skin Recovery Serum is shown to:  
**Visibly minimize the appearance of redness caused by skin damage**

Day 1 - After induced irritation (tape stripping), no treatment  
Day 2 - After treating with two applications of Serum (day/night)



WITH  
SKIN RECOVERY  
SYSTEM



In 24hrs, after a single application, the EltaMD Skin Recovery System is shown to:  
**Visibly minimize the appearance of redness caused by skin damage**

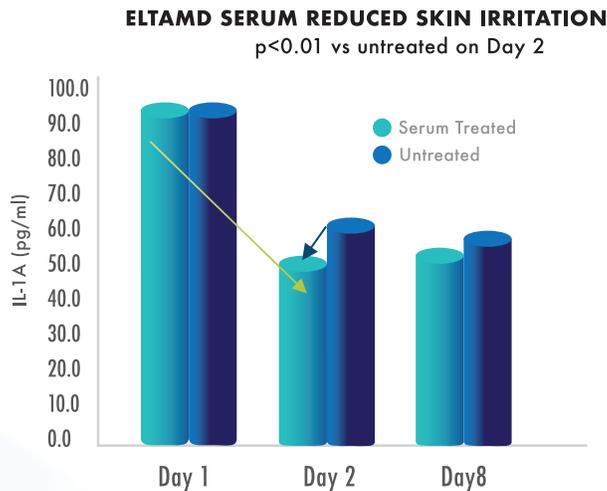
Day 1 - No induced irritation, no treatment  
Day 2 - After single application of the Skin Recovery System

A total of thirty-seven (37) subjects, 18-60 years of age, with all facial skin types (self-perceived Sensitive, Normal, Oily, Dry and Combination) were enrolled and completed the study with no adverse events reported. Skin benefits were evaluated throughout the study via VISIA® photos, superficial facial swabbings, industry recognized bio-instrumentation and a subject questionnaire.

# IN-VIVO CLINICAL STUDY (continued)

## Facial Swabbing:

The Skin Recovery Serum significantly reduced skin irritation biomarker after 24 hours vs. untreated skin. Irritation biomarker Interleukin-1 alpha (IL-1a) was quantified from the skin swabbing samples collected from the forehead during the clinical study.

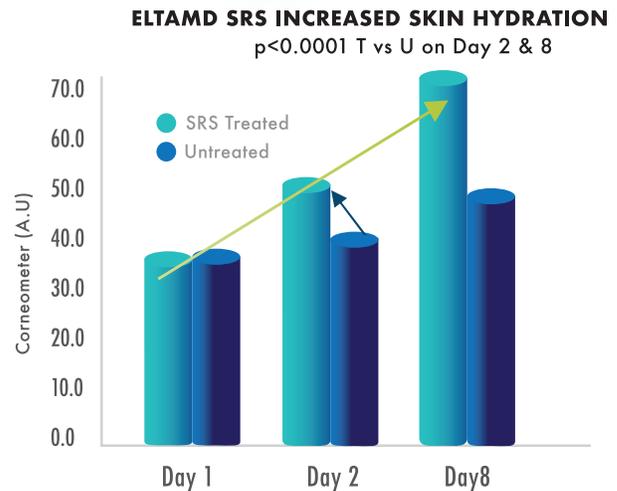


**Figure 5.** Irritation biomarker IL-1a treated with SRS Serum on forehead vs untreated.

**53%**  
reduction in irritation  
(vs baseline)  
after 24 hours

**21%**  
reduction in irritation  
(vs untreated skin)  
after 24 hours

**Bio-instrument Corneometer (CM 825, Courage + Khazaka, Germany):** The Skin Recovery System facial regimen (Toner, Serum, Light Moisturizer) used on the cheek area significantly increased skin hydration (39% vs untreated), providing 24 hour moisturization after a single application vs. untreated skin.



**Figure 6.** Skin moisturization treated with SRS on cheek vs untreated.

**39%**  
increase in hydration  
(vs untreated)  
after 24 hours

**2x**  
increase in hydration  
from day 1  
to day 8

In 24 hours, the Skin Recovery Serum was shown\* to:  
**Significantly reduce signs of skin irritation**

\*After two applications (day and night)

In 24 hrs, after a single application,  
the Skin Recovery System was shown to:

**Moisturize the skin barrier and improve skin hydration**

## Consumer Study:

After using the **Skin Recovery Serum** only on their forehead for 7 days, the majority of subjects agreed their skin redness and irritation was reduced and their skin felt soothed and calm.

✨ **83% of the subjects agreed their skin felt soothed after using the Serum.**

✨ **75% of the subjects agreed their skin felt calm after using the Serum.**

After using the **Skin Recovery System** facial regimen (Toner, Serum and Light Moisturizer) on their cheek for 7 days, the majority of subjects agreed their skin felt moisturized.

✨ **91% of the subjects agreed their skin felt moisturized after using the Skin Recovery System.**