

ASEA®

RENU28® Revitalizing Redox Gel Scientific Validation



Our commitment to research at ASEA

Research and testing are integral to any successful product or brand, which is why ASEA has committed to investing in science since our founding. Research is a critical and vital measure we take to ensure the safety and efficacy of our products. Through these research efforts, our associates and customers can take note that systematic investigation, which includes research development, testing, and evaluation, has been done to demonstrate the benefits of redox signaling*, both internally and externally.

While aging is inevitable, ASEA continues to investigate ways to support healthy aging through patented topical redox signaling technology.

Third-party redox validation

Every batch of RENU28® Revitalizing Redox Gel is tested down to the parts per million to certify the presence of active redox signaling molecules. At ASEA, we conduct our own internal testing as well as working with trusted third-party laboratories for redox validation and research. These independent labs specialize in chemical analysis and uphold the highest evaluative standards.



BQC Redox Technologies is a biotechnology company in Spain dedicated to the study of redox parameters.

Their team of redox specialists includes chemists, biotechnologists, and biologists with industrial and postdoctoral experience.



Founded in 1996, **GLU (Gesellschaft für Lebensmittel and Umweltconsulting)** operates a

sophisticated and accredited chemical-analytical laboratory in Germany. Their team manages an expansive range of research services for clients within the environmental and food industries.

Dermatest five-star accreditation



RENU28® Revitalizing Redox Gel has received the coveted 5-star

accreditation—the highest possible—by leading European dermatological research institute, Dermatest. Dermatest offers an extensive portfolio of standard and individual test designs to assess the safety and efficacy of products for the cosmetic and pharmaceutical industries.

This five-star evaluation provides the highest level of assurance and standards for proven skin tolerance, effectiveness, and application safety. With five-star seals of approval, Dermatest proves the quality and efficacy of our skin care products.

We power potential™

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Age-fighting effects of RENU28® Revitalizing Redox Gel on women over age 45

The influence of RENU28 Gel was measured over four weeks in the most common parameters concerning aged skin surface.

RENU28 Gel has active redox signaling molecules that can be applied directly to the skin to help improve and revitalize its appearance. ASEA commissioned a clinical trial to quantify the results of this revitalization.

Study protocol

Over the four-week study period, researchers examined 20 adult female panelists over the age of 45 for skin hydration, eye wrinkle depth, face appearance, and elasticity. Each panelist applied RENU28® Revitalizing Redox Gel twice a day (morning and evening) over the four-week period.

Researchers used a method called “corneometry” to measure the hydration of the outer layer of the epidermis. A PRIMOS 3D optical handheld device captured in vivo measurements of eye wrinkle depth and skin roughness. Cutometry assessment provided the measurement of skin elasticity. High-resolution photographs of the subject’s face using the VISIA™ complexion analysis system provided imagery for digital image face appearance comparison.

Results summary

	Average visible improvement of subjects in four weeks
Skin texture	22%
Skin smoothness	23%
Skin elasticity	20%
Eye wrinkle depth	21%
Skin moisture	11%

Effect of RENU28® Revitalizing Redox Gel on cellulite and adipose lobules

Dermatest provided dermatological expertise on a 12-week clinical-dermatological application test including average length and breadth values for visible cellulite using Dub® Skin Scanner.

The influence of the RENU28 Gel product was examined concerning the dimension of visible cellulite in the area of thighs, as well as the tolerance after a period of 12 weeks in-use test according to clinical-dermatological criteria.

Cellulite forms when fat lobules press against the skin and create a bulge with an accompanying depression next to the bulge.

Study protocol

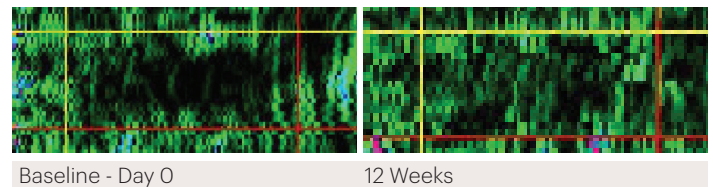
In a 12-week assessment, researchers used skin ultrasound measurements to evaluate 30 female participants before the study, at 6 weeks, and after 12 weeks. Each test subject applied the product RENU28® Revitalizing Redox Gel twice a day (morning and evening) in the thigh region. For 30 – 60 seconds, participants massaged the gel on the targeted areas of the skin.

Results summary

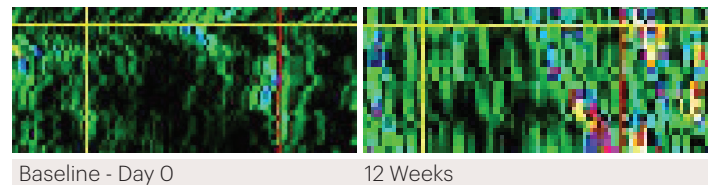
	Week 6	Week 12
Visible cellulite length	12.24% decrease	15.81% decrease
Visible cellulite breadth	10.75% decrease	14.73% decrease

These results show a visible decrease in the length and breadth of cellulite. As indicated in the study, RENU28 Gel is unlike typical cellulite treatments as it does not use inflammation or fillers for a temporary effect.

Subject 1



Subject 2



Images from the study show two different subjects. The dark area represents an area of visible cellulite, and vertical and horizontal lines are used for measurement. It is evident in the image on the left that the area in each subject appears larger than in the picture on the right, after using RENU28 Gel for six weeks.

Effect of RENU28® Revitalizing Redox Gel on elasticity of human thigh skin

Specialists with dermatological expertise studied the effect of RENU28 Gel on skin elasticity.

Study protocol

Investigators at Dermatest provided analysis of skin elasticity by use of Cutometer. Measurements for 30 female subjects were obtained before the study, after 6 weeks, and after 12 weeks. Two areas of the skin were monitored during the study: (1) an area where RENU28 Gel was applied and (2) an untreated control area.

Each test subject applied the product RENU28® Revitalizing Redox Gel twice a day (morning and evening) in the thigh test area. Subjects massaged into skin for 30 – 60 seconds.

Results summary

	Week 6	Week 12
% elasticity improvement after deduction of control	15.94%	20.91%

Throughout the 12-week evaluation, subjects demonstrated significant progressive improvements (up to 21%) in skin elasticity.

RENU28® Revitalizing Redox Gel surface skin cell renewal and cell turnover

ASEA commissioned Stephens & Associates to study the visible effects of redox signaling support to surface skin cell turnover. Stephens & Associates answered the following important question: *Will RENU28® Revitalizing Redox Gel encourage healthy surface skin cell renewal and turnover?*

Study protocol

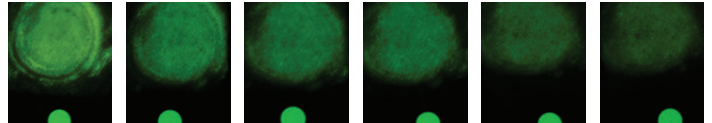
Participants applied RENU28 Gel to one forearm twice each morning and twice each evening for two weeks. At that point, a fluorescent dye was applied to both forearms. Each arm was then photographed under UV light and quantified. Over the next two weeks, participants continued to apply RENU28 Gel as before. The fading of the dye indicated skin cell renewal and turnover.

Results summary

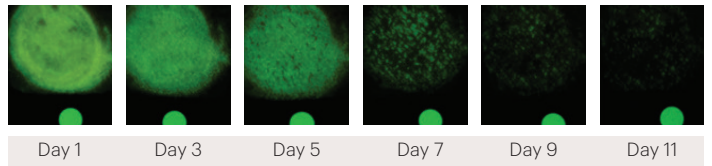
After 30 days, the results were measured on participants' forearms. Arm dye faded to zero in 13.2 days on the arm where RENU28 Gel was applied. Arm dye faded to zero in 15.3 days on the control arm. With the application of RENU28 Gel, the skin showed a healthy surface cell turnover time of 24 – 36 days, four to six days earlier than the control arm (a 16% faster rate).

Subject 1

Untreated

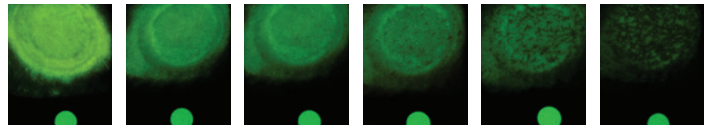


RENU28



Subject 2

Untreated



RENU28

