

# Versastique™ & Versagel® Anti-aging Clinical Study

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A Better Way To Formulate



# VERSAGEL & VERSASTIQUE ANTI-AGING CLINICAL STUDY

## Anti-aging Clinical Design

### Objective

Evaluate the anti-aging effect of Versagel Squalane & Versastique Squalane compared to Squalane and Placebo

### General

Independent, 4 week, randomized, double blinded  
Twelve subjects per treatment cell  
Washout – 3 days  
Four treatment products (Placebo, SQ, VG-SQ, and VS-SQ)  
Efficacy evaluation timepoints: baseline, immediate, 2 week, and 4 week

### Measurement†

Clinical grading of visual smoothness & texture using modified Griffiths scale

0 = none (best)  
1 to 3 = mild  
4 to 6 = moderate  
7 to 9 = severe (worst)

† Used for all clinical grading parameters except skin elasticity

### Digital Imaging (VISIA)

Visual and image analysis studies showing skin improvement results by using test formulations over a 4 week period

### Anti-Aging Clinical Test Formulations

**Vehicle** (Lotion Base Formula)

**Vehicle + SQ** (Lotion Base Formula + Squalane\*)

**Vehicle + VG-SQ** (Lotion Base Formula + Versagel® SQ 1600T\*)

**Vehicle + VS-SQ** (Lotion Base Formula + Versastique™ SQ Clear\*)

\*Formulated to contain 5% Squalane

### Study Population

Healthy females aged 35 – 65 with Fitzpatrick Skin Type I-IV  
Having mild to moderate (3 – 6) score on the Griffiths scale for the following facial conditions

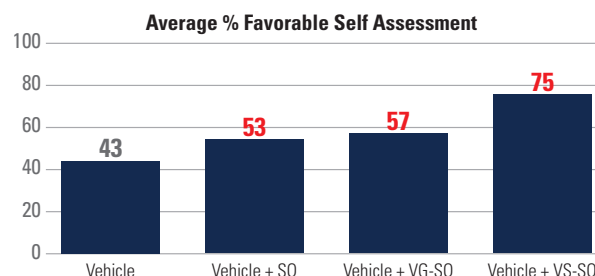
- Photoaging, Fine lines, Wrinkles, Lack of radiance/luminosity/brightness, and Uneven skin tone

### Anti-Aging Efficacy Parameters

Periocular fine lines, Periocular wrinkles, Skin smoothness/texture (visual), Skin texture (tactile), Radiance/luminosity/brightness, Skin tone evenness, Overall appearance, & Skin elasticity

### Self-Assessment Questionnaire

Analyzed answers to questions about subjects' perceived results



Versagel & Versastique receive highly favorable Self-Assessment ratings by the subjects of the anti-aging clinical study.

Favorable responses were “agree” and “strongly agree” to a list of 20 questions regarding the properties and skin care benefits of the 4 test products used in the clinical study. Subjects favorably reported the positive benefits of products containing squalane – especially Versastique-SQ. These results support the strong anti-aging efficacy of these ingredients.

## Summary of Versagel & Versastique Anti-aging Superiority

VG-SQ & VS-SQ outperformed SQ on 6 major Anti-aging Efficacy Parameters

VG-SQ 28% better than SQ

VS-SQ 28% better than SQ

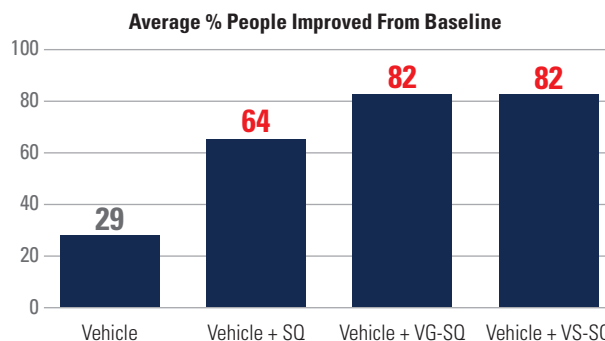
**Significant** improvement from baseline via Wilcoxon signed ranked test ( $p \leq 0.05$ )

### Parameters

Periocular Wrinkles	Skin Smoothness & Texture
Overall Appearance	Skin Tone Evenness
Skin Elasticity	Skin Radiance

### Conclusion

- Squalane is an efficacious anti-aging ingredient
- Versagel & Versastique delivery system significantly improves anti-aging efficacy of squalane on 6 major anti-aging parameters
- Efficacy benefits of Versagel-SQ and Versastique-SQ are perceivable (visual, tactile, and image analysis)
- Subjects favorably reported the positive benefits of products containing squalane – especially Versastique-SQ
- Versagel-SQ and Versastique-SQ can be used to create high performing anti-aging products



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## Anti-Aging Efficacy – Clinical Grading

### Improvement of Overall Appearance

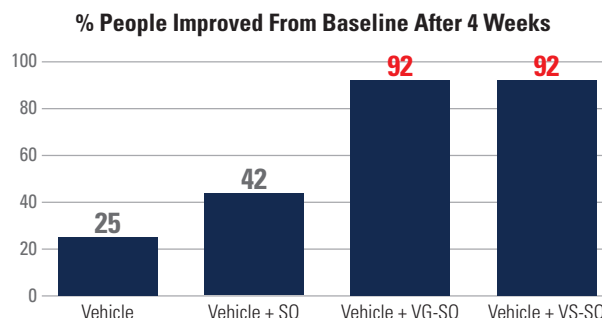
Lotion containing Versagel SQ and Versastique SQ superior to Squalane and Placebo containing lotions

#### Result

VG-SQ is 119% more effective than SQ

VS-SQ is 119% more effective than SQ

**Significant** improvement from baseline via Wilcoxon signed ranked test ( $p \leq 0.05$ )



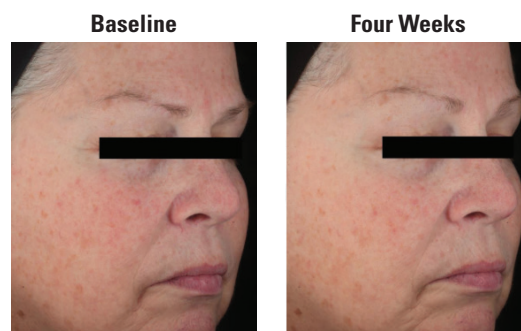
## Anti-Aging Efficacy – Visual

### Anti-aging Improvement from Versagel Squalane (VISIA)

After 4 weeks her face shows noticeable anti-aging benefits

- Better coloration around her eyes
- Firmer skin around her eyes
- Less redness in her cheeks
- Lighter/Brighter and more even overall complexion

Product contained Versagel SQ 1600T



## Anti-Aging Efficacy – Image Analysis

### Reduction of Periorcular Wrinkles

This subject received the lotion containing Versastique SQ Clear

After 4 weeks her face shows reduction in total area of Periorcular Wrinkles

After 4 weeks her face shows noticeable anti-aging benefits

- Reduction in wrinkles
- Lighter/Brighter and more even overall complexion

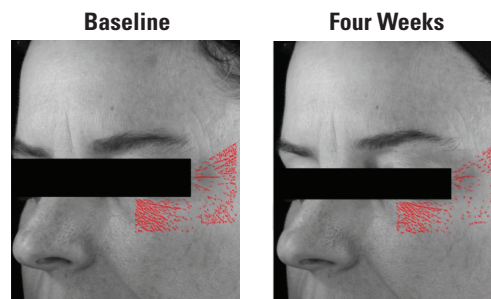
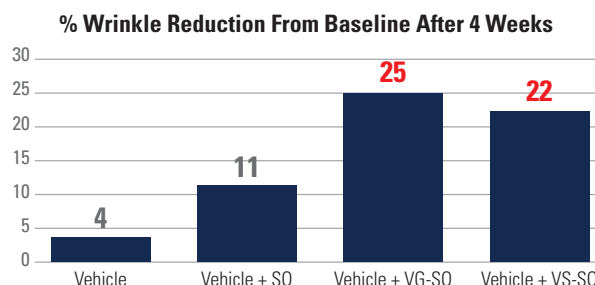
#### Result

VG-SQ is 127% more effective than SQ

VS-SQ is 100% more effective than SQ

Change from baseline to 4 weeks for selected panelists

Product contained Versastique SQ Clear



## Anti-Aging Efficacy – Clinical Grading

### Improvement of Skin Radiance

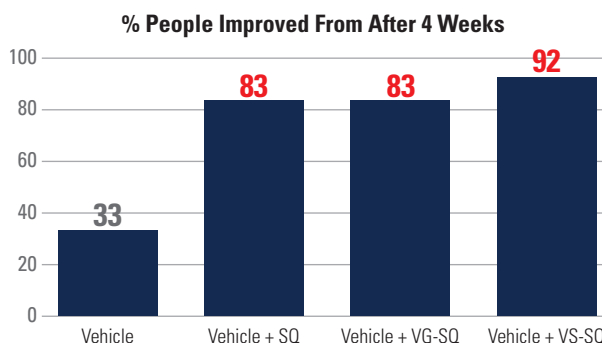
Lotion containing SQ, VG-SQ, and VS-SQ were all significant after 4 weeks, VG-SQ parity to SQ, VS-SQ directionally better than SQ

#### Result

VG-SQ is parity SQ

VS-SQ is 11% more effective than SQ

**Significant** improvement from baseline via Wilcoxon signed ranked test ( $p \leq 0.05$ )



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# Anti-Aging Efficacy – Clinical Grading

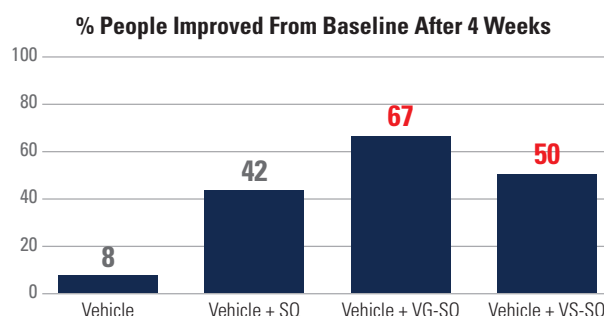
## Reduction of Periorcular Wrinkles

Lotion containing Versagel SQ and Versastique SQ superior to Squalane and Placebo lotions

### Result

VG-SQ is 60% more effective than SQ  
VS-SQ is 19% more effective than SQ

**Significant** improvement from baseline via Wilcoxon signed ranked test ( $p \leq 0.05$ )



## Improvement of Skin Elasticity

Lotion containing Versagel SQ superior to SQ & Lotion containing Versastique SQ parity to SQ

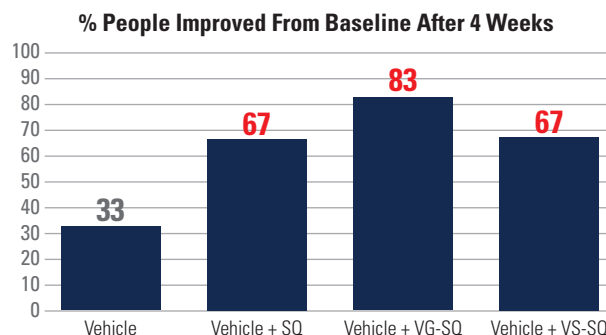
### Result

VG-SQ is 24% more effective than SQ  
VS-SQ is equally effective as SQ

**Significant** improvement from baseline via Wilcoxon signed ranked test ( $p \leq 0.05$ )

### Measurement

Clinical assessment of pinch recoil of left crows feet area (LCFA) by skilled clinician  
Pinch skin with thumb and forefinger  
Hold in place 2 sec  
Measure time for skin to recover  
Lower time is better



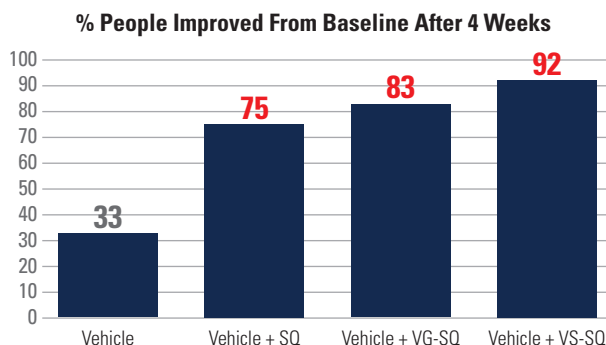
## Improvement of Smoothness & Texture

Lotion containing SQ, VG-SQ, and VS-SQ were all significant after 4 weeks, VG-SQ and VS-SQ were directionally better than SQ

### Result

VG-SQ is 11% more effective than SQ  
VS-SQ is 23% more effective than SQ

**Significant** improvement from baseline via Wilcoxon signed ranked test ( $p \leq 0.05$ )



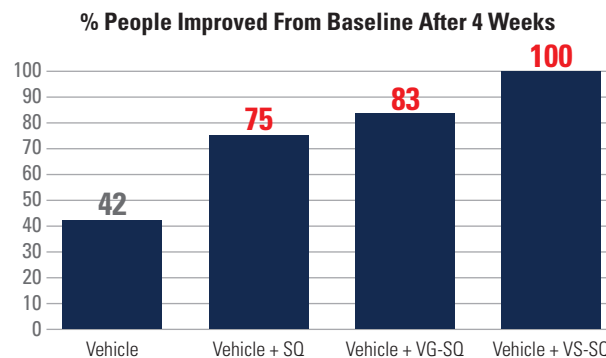
## Improvement of Skin Tone Evenness

Lotion containing SQ, VG-SQ, and VS-SQ were all significant after 4 weeks, VG-SQ and VS-SQ were directionally better than SQ

### Result

VG-SQ is 11% more effective than SQ  
VS-SQ is 33% more effective than SQ

**Significant** improvement from baseline via Wilcoxon signed ranked test ( $p \leq 0.05$ )



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