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A New High-Potency, Multi-Mechanism Skincare Regimen for Photodamaged Skin: Results From a Vehicle-Controlled Clinical Trial

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Week 0

Week 0

Week 0

Introduction

Skin aging is a multi-faceted biological process that cannot be fully addressed by any single skincare ingredient. A high-potency skincare regimen that delivers over 35% active benefit ingredients daily was developed to provide anti-aging benefits across all skin layers via multiple mechanisms. Tolerability and effectiveness of the regimen were evaluated in a randomized, double-blind, vehicle-controlled clinical trial.

Study Methodology	
Design	Double-blind, vehicle-controlled, randomized, parallel groups clinical trial (2:1 ratio, N=44 active group, N=25 vehicle group)
Population/ Inclusion	Caucasian women, aged 45-65, with mild to moderate general facial photodamage (4-7 on a 0-9 grading scale for fine lines and coarse wrinkles in the eye area and mottled pigmentation on the face) and willing to use higher strength skincare products
Exclusion	Known allergies to skincare products, skin/eye conditions or uncontrolled chronic diseases that could interfere with evaluations, current use of medications for skin or eye conditions, routine use of anti-aging topical products including prescription retinoids within 6 months, hydroxyacids, retinol and other anti-aging cosmetics within 2 months, and/or cosmetic procedures (e.g., peels, laser, light treatments) within 6 months
Duration	16 weeks

 Clinical Measures Visual grading by a trained clinician using a standardized grading scale

Treatment

Evaluation Visits

Evaluation Tools

- Clinical parameters: Fine Lines, Wrinkles, Clarity, Laxity, Visual Roughness, Tactile Roughness, Dyschromia, Pore Size, Sallowness, Eyelid Crepiness, Lifted Appearance of Eyelid, and Overall Appearance were graded using a 0.5 incremental scale from 0 (none) to 9 (severe)

Active group used Facial Cleanser, Day Cream,

used the four formulation vehicles

Weeks 0, 2, 4, 8, 12, and 16

Night Cream, and Eye Cream, while Vehicle group

- Irritation / tolerability parameters: Erythema, Dryness, Burning, Stinging, Itching, Tingling, and Tightness were graded using a 0.5 incremental scale from 0 (none) to 3 (severe)
- Silicone replicas of the right or left crow's feet area (same side as was chosen for clinical grading) in Objective Measures half of the subjects in each group
- Self-assessment questionnaires were completed by Subjective Measures
- Digital photographs of faces were taken at Weeks Photography 0, 8 and 16
- Safety Adverse events were recorded and evaluated

Test Products

Product and Usage

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Facial Cleanser NeoStrata® Skin Active Exfoliating Wash) Day + night use	8.5% Polyhydroxy/Bionic acids (gluconolactone + maltobionic a botanical complex (extracts of a chamomile, cucumber, althaea a rosemary), and soap-free surfac

Key Benefit Ingredients

Day Cream (NeoStrata® Skin Active Matrix Support SPF 20) Day use

8% N-acetylglucosamine, 0.1% retinol, palmitoyl oligo- and tetrapeptides, vitamin E, pomegranate and coffee bush berry extracts, UVA/UVB sunscreens

Night Cream (NeoStrata® Skin Active Cellular Restoration)

acids (5% each of glycolic acid, gluconolactone & maltobionic acid), palmitoyl oligo- and tetrapeptides, chardonnay grape seed extract, apple stem cell extract, extracts of acai fruit. pomegranate and blueberry, vitamin E

15% Alpha-hydroxy/Polyhydroxy/Bionic

Eye Cream (NeoStrata® Skin Active Intensive Eye Therapy)

Day + night use

6% N-acetylglucosamine, palmitoyl oligo- and tetrapeptides, apple stem cell extract, caffeine, sodium hyaluronate, vitamin E, optical blurring agents

Vehicles (4)

Night use

· Same daily regimen use as Active product

No key benefit ingredients; base formulations were provided in identical packaging as active products; the vehicle day cream was formulated with identical UVA/UVB sunscreens

Results

Active products outperformed Vehicles

- > The Active group began improving significantly more than the Vehicle group as early as week 2 and outperformed the Vehicle group on all aging parameters by week 12, P<0.05. Differences in improvement were first observed at:
- Week 2 for Fine Lines, Clarity, Laxity, Tactile Roughness, Eyelid Crepiness, and Overall Appearance
- Week 4 for Dyschromia and Sallowness
- Week 8 for Wrinkles and Visual Roughness
- Week 12 for Pore Size and Eyelid Lifted Appearance

Active products and Vehicles were equally well tolerated

➤ Mean tolerability scores were better than mild (<0.5 score on a 0-3 scale) for all graded parameters and adverse events were minimal (mild to moderate irritation N=4 (Active), N=2 (Vehicle))

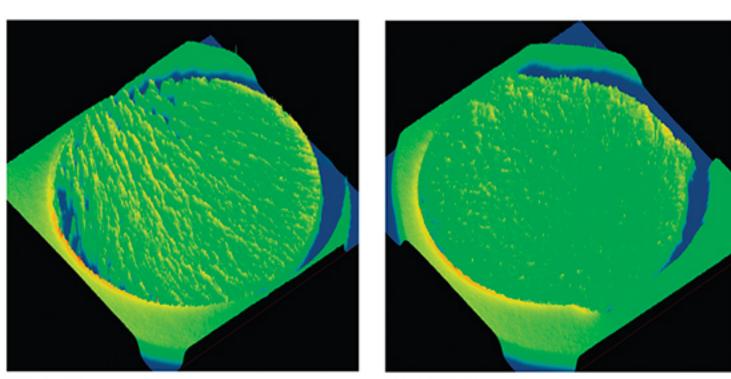
Anti-Aging effects of the Active products were apparent to subjects

- After 16 weeks, Active group participants agreed:
- 95%: skin was more firm and radiant
- 91%: skin looked younger and wrinkles were less noticeable
- 98%: skin texture was smoother
- 79%: brown spots were less apparent

Clinical Photography: Active Products

Improvement in Crow's Feet and Eyelid Crepiness

Week 16



Week 0 Week 16

Improvements in periocular fine lines and wrinkles and smoother skin texture can be observed in clinical photographs and corresponding silicone replicas.

Improvement in Forehead Wrinkles

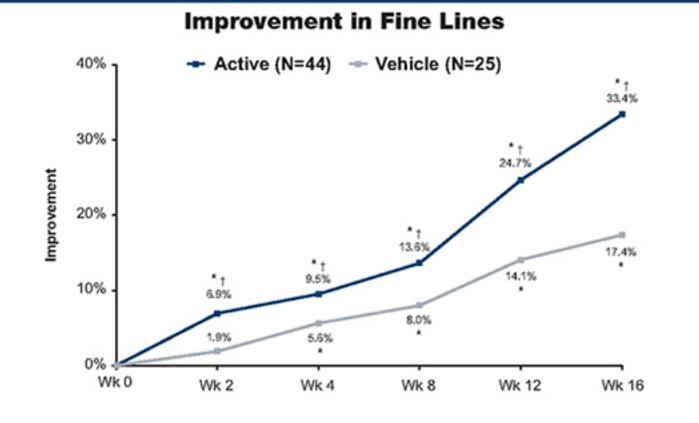


Week 8

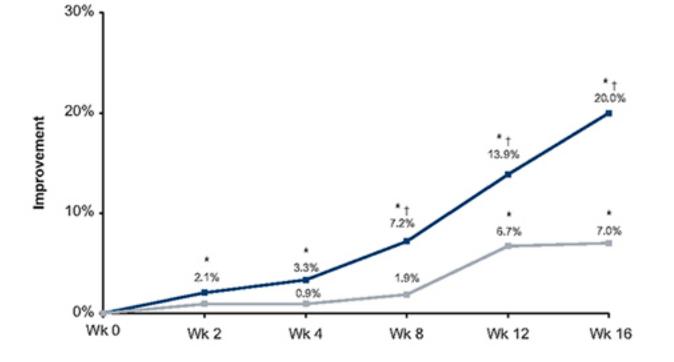
Reduced Pigmentation



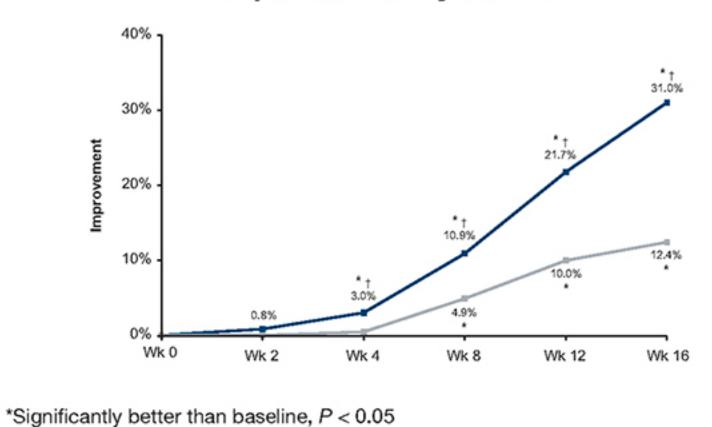
Clinical Grading Results



Improvement in Wrinkles



Improvement in Dyschromia



†Significantly better than vehicle, P < 0.05

Conclusion

- > The new high-potency, multi-mechanism skincare regimen delivers advanced comprehensive anti-aging benefits to photodamaged skin through the synergistic actions of multiple benefit ingredients and is well tolerated.
- These anti-aging effects are clinically measurable and statistically significant above and beyond the effect of the cosmetic vehicles and can be used to help restore the look and feel of youthful skin.

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