

Skin

‘Inflammaging’ Inflammation causing ageing

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We are really excited by the results we are getting in our scientific study. The results include markedly elevated blood serum levels for Hydroxyproline post consumption, which shows the impressive absorption levels.

Professor E. Briden, Dermatologist, US



Use of anti-inflammatory ingredients in effectively formulated products will help to prevent harmful inflammation and premature ageing. A proper diet and managing stress responses are a great compliment to skincare treatments and effective home care products.

Totally Derma® nutraceutical formulation has been designed to help reduce inflammation in both the skin and the body. A formulation that contains specific ingredients in specific dosages which can really help with this problem.

Why is collagen important for the skin?

Enzymatically hydrolysed collagen amino acid peptides help the skin regain elasticity and firmness and soften the fine lines and wrinkles. Moreover, collagen plays a huge role in stimulating gut health, both directly by providing the gut lining with the necessary amino acid peptides for repair, and indirectly by regulating the stress and sex hormones that affect gut functioning. The balance in the gut microbiome is essential for radiant, young, and blemish-free skin.

Totally Derma® collagen and HA feedback mechanism

Collagen & HA work together and positively stimulate each other in a positive feedback mechanism. The more collagen you have, the more HA you produce, the more HA you produce the more collagen you have etc.

In other words, HA also stimulates fibroblast proliferation within the collagen matrix. Therefore, HA stimulates collagen growth as well as directly consuming hydrolysed collagen. Totally Derma® contains therapeutic dosage 210mg Synovoderma Hyaluronic Acid.

Therefore, Competitor product only does half the job that Totally Derma® does regarding stimulating collagen.

12 week clinical study

Skin absorption

Objective

This study aimed to assess the absorption levels of the key components of Totally Derma® Nutraceutical Drink Supplement formulation – collagen and HA – in the blood and skin, and to evaluate its effect on skin texture following everyday use of the beverage for 12 weeks.

Study methodology

Test product usage and ingredients

One serving (approximately 12g) of the formulation mixed with 250 ml water or juice to be consumed daily, preferably before sleep, contains:

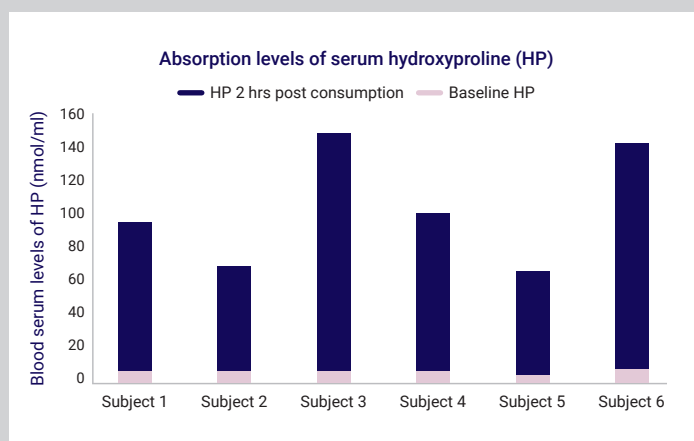
- 10,000 mg Arthred® hydrolysed collagen
- 210mg Synovoderma® HA powder (9%minHA)
- Synergistic co-factor ingredients: vitamin C (ascorbic acid, 250 mg), grape seed extract (160 mg), green tea extract (160 mg), alpha lipoic acid (60 mg), zinc citrate (5 mg), manganese citrate (3 mg), copper bisglycinate (0.33 mg).

Study design and subjects

- This was a 12-week usage study assessing the absorption of daily Totally Derma® Nutraceutical Drink Supplement ingestion, by examining absorption levels of the key ingredients, collagen and hyaluronic acid, in blood serum and skin biopsies.
- Study Population: 6 women aged 46–65 years with mild to moderate general facial lines and coarse wrinkles in the eye area, skin dehydration and mottled pigmentation on the face. Subjects continued their regular skin care regimen alongside consumption of the nutraceutical beverage.

Assessments

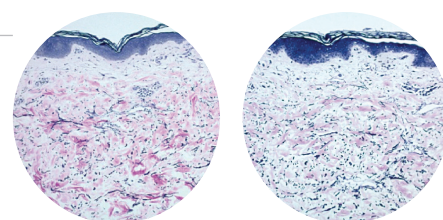
- Blood serum was assessed at baseline (fasting) and 2 hours after beverage consumption for levels of hydroxyproline (as a marker for collagen serum absorption) and HA.
- Skin biopsies from non-sun exposed skin (hip region) were collected at baseline and after 12 weeks of daily use of the drink supplement, and were sectioned and stained for hematoxylin and eosin (H&E, control) and for the following markers:
 - Elastin as a marker for collagen absorption
 - Colloidal iron as a marker for HA absorption
- Visia Skin Analysis Machine facial assessment at baseline and 12 weeks
- Retrospective self-reporting questionnaire



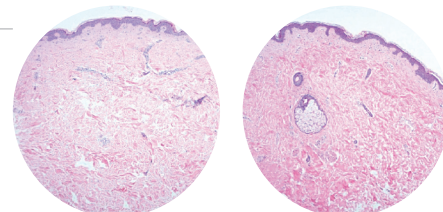
Percentage increase in blood serum HP and HA, 2 hours after consuming the formulation contained in Totally Derma® Nutraceutical Skin Drink

	Subject 1	Subject 2	Subject 3	Subject 4	Subject 5	Subject 6
Increase in HP	+2250%	+1500%	+3500%	+2325%	+3150%	+2700%
Increase in HA	+47.5%	+173%	+83%	No change	-23.2%	-13.8%

Skin biopsy sections – elastin staining (marker for collagen absorption)



Skin biopsy sections - colloidal iron staining (marker for HA absorption)



Before and after photo





Skin study subject feedback

Conclusion

This study confirms that the key components of the formulation of Totally Derma® Nutraceutical Drink Supplement, collagen and HA, are being effectively absorbed when ingested and lead to increased levels of collagen and HA in the skin, visible anti-ageing effects and an improved overall skin texture.

The markedly elevated blood serum levels of hydroxyproline following ingestion of the beverage show impressive collagen absorption levels.

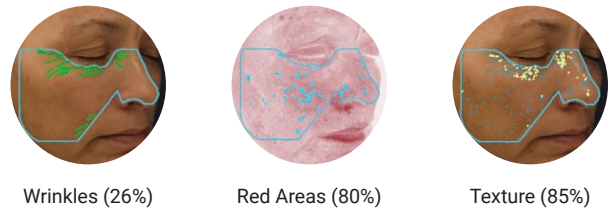
The formulation of Totally Derma® Nutraceutical Drink Supplement was well tolerated and highly rated by the study group who all observed improvements in their skin.

This study supports the notion that ingesting specific ingredients can result in an anti-ageing and 'health-boosting' effect on the skin. Furthermore, oral nutraceutical supplementation appears promising for skin rejuvenation.

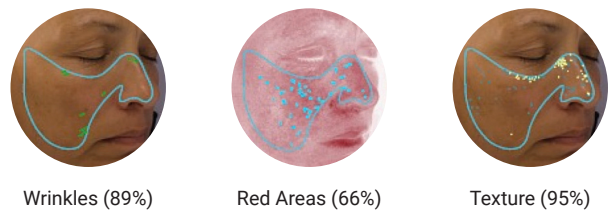
The right balance of specific, optimal quality and high purity ingredients is crucial. The specific formulation of Totally Derma® Nutraceutical Drink Supplement works from within to stimulate the body's own production of collagen, elastin and HA, thus addressing the underlying physiological skin ageing process to help restore the look and feel of youthful skin.

Results

Facial Assessment Report at Baseline

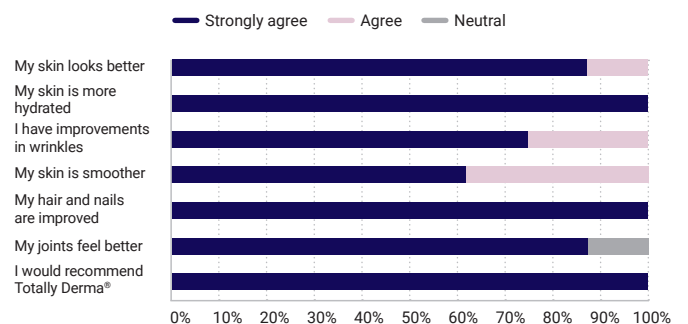


Facial Assessment Report after 12 weeks of consuming the formulation in Totally Derma® Nutraceutical collagen drink supplement



12-week skin absorption clinical study

Self-reporting questionnaire



10 week clinical study

Visia skin analysis

Objective

To evaluate the benefits of active ingredients offering excellent solubility and can be digested and absorbed in the small intestine; before being distributed through the blood vessels through the deeper layer of the dermis, resulting in the multiplication and stimulation of fibroblast cells to produce more collagen and hyaluronic acid in the dermis.

Study methodology

Design: Visia Skin Study Analysis

Population/Inclusion: Caucasian women, aged 47-56 with mild to moderate general facial fine lines and coarse wrinkles in the eye area, skin dehydration and mottled pigmentation on the face and willing to try an ingested high strength collagen drink supplement.

Assessment

Exclusion: Current use of skincare includes routine use of anti- ageing topical lotions and creams. No cosmetic procedures (Botox, fillers, peels, laser, light treatments) used by any of the candidates.

Duration: 10-week study (March-June 2014) Evaluation Visits: Baseline, at 6 weeks, at 10 weeks Evaluation Tools: Visia Skin Analysis machine Photography: Baseline, at 6 weeks, at 10 weeks.

Test product and usage

Key ingredient benefits

10,000 mg. Arthred® (95% absorbed) highly bioavailable enzymatically processed hydrolysed Collagen peptides raise Hydroxyproline amino acids (the main building block component of collagen and elastin) by 550%.

210 mg. enzymatically processed Hyaluronic Acid increases skin hydration, volume and density and supports collagen and elastin.

Synergistic co-factor ingredients stimulate a natural biological process which promotes the stages of collagen synthesis, maintenance, promotion and repair.

Differences in improvement

Week 3 for skin hydration

Week 4 for more even complexion, glowing skin, overall appearance

Week 5 for less redness and spots, dewy hydration and clarity week 6 for improved skin smoothness, density

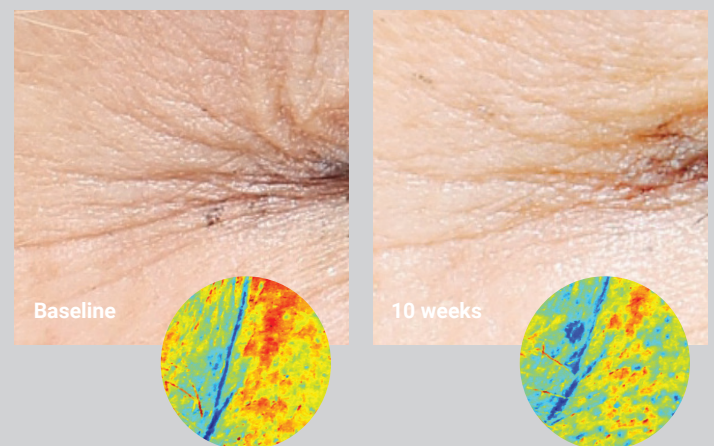
Week 7 for wrinkles and visual roughness

Week 8 for crows feet improvement

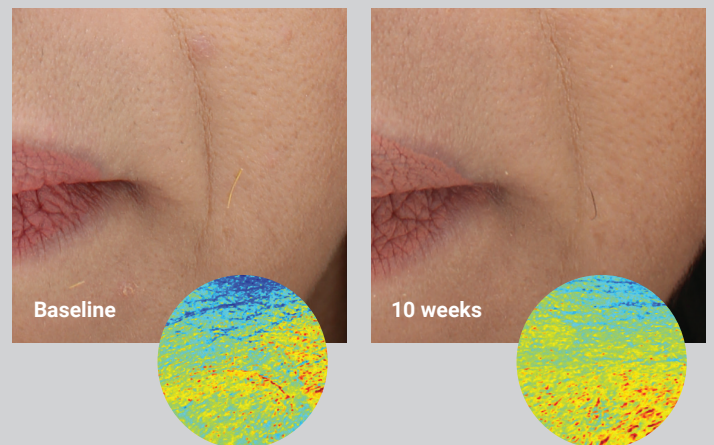
Week 10 for all the above

Clinical skin study photography

Improvement in Crow's Feet



Improvement in Nasolabial Folds





Skin study subject feedback

Anti-ageing effects were apparent to subjects

After 10 weeks, group participants agreed:

100% skin was more hydrated, texture was smoother, firmer, had more volume, wrinkles less noticeable.

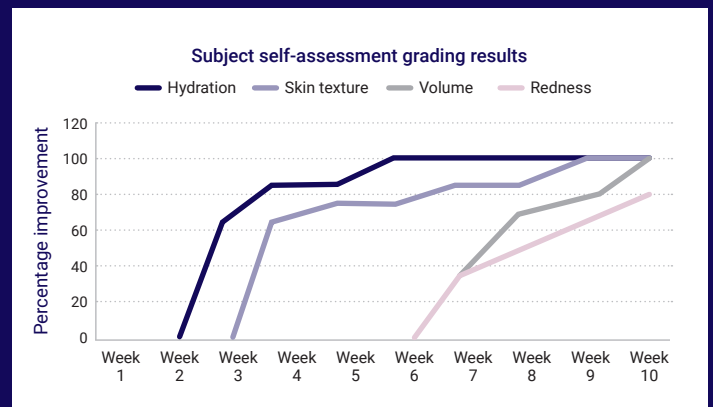
80% less redness.

Conclusion

Formulation delivers advanced comprehensive anti-ageing benefits to dehydrated, lax, wrinkled, sallow skin through the synergistic actions of multiple benefit ingredients, is 95% absorbed and is well tolerated.

These anti-ageing effects are clinically measurable and statistically significant in working from 'within' to stimulate the body's own production of collagen, elastin and HA, addressing the signs of the ageing process to help restore the look and feel of youthful skin.

10-week visia clinical skin study



Subject self-assessment grading results

