L'ABEILLE

SCIENCE-BASED COSMECEUTICALS

ACTIVE DATA SHEETS

Bakuchiol Copper Tripeptide-1 Ectoine Marine Blue Vital C Niacinamide Renoumer

Alpha Hydroxy Fruit Acid Complex Ascorbyl Tetraisopalmitate (Atip)

BAKUCHIOI

The new retinol alternative

WHY BAKUCHIOL IS THE NEW RETINOL ALTERNATIVE:

Bakuchiol is the first natural alternative to Retinol without having any of the negative effects associated with a Retinol. Derived from Bakuchiol (Psoralea Corylifolia) seeds, this ingredient is potent enough to be compared to & displays all the benefits of a Retinol.

It is photochemically and hydrolytically stable, so it can be used during the day. Multiple comparative studies revealed Bakuchiol to be a true alternative to Retinol. It modulates retinoid binding and metabolizing genes, significantly improves multiple dermal and dermo-epidermal junction genes/proteins, and is a Collagen I, III & IV stimulator. This product provides hydration by up-regulating synthesis of hyaluronic acid and aquaporin 3.

Bakuchiol is clinically proven to reduce multiple signs of aging.

HOW WILL BAKUCHIOL BENEFIT MY SKIN?

- · Significant reduction in depth and appearance of fines lines and wrinkles
- · Increases elasticity and firmness of skin
- · Boost production of skin's building blocks collagen and elastin
- · Has a strong antioxidant profile, protecting skin from free radical damage
- · Fades Pigmentation and age spots, providing a more even skin tone
- Improves skin texture for a smoother appearance
- · Reduces pore size
- Strong inhibitor of pro-inflammatory enzymes
- Anti-inflammatory and anti-bacterial properties reduce acne, blemishes & breakouts
- Improves dry skin
- · Increases skin radiance & brightness
- · Protects against the detrimental effects of UV exposure
- · Strong inhibitory effect against UV induced erythema
- Suitable for all skin types, even sensitive skin

"When it comes to a natural, plant-based retinol alternative, there is only one ingredient that has been extensively studied and proven to mimic the activity and benefits of Retinol," says cosmetic chemist Al-Nisa Ward, CEO and owner of consulting firm Cosmetic Science Innovations. "That ingredient is Bakuchiol."

IS BAKUCHIOL BETTER THAN RETINOL?

Retinol is a Vitamin A derivative ingredient that has been used for decades in cosmetic skin creams. Retinyl Palmitate is estimated to be about 20% weaker than Retinol and works by stimulating collagen production, whereas Retinol is stronger and also increases skin cell turnover as well as stimulating collagen production. Similarly to Retinol, Bakuchiol helps to instruct normal cell behaviour, encouraging the natural shedding of the skin and boosting collagen and elastin production, without the associated side effects (increased sensitivity and redness) of Retinol.

RETINOL SIDE EFFECTS:

- It is listed by the FDA as "category X," meaning it should not be used by pregnant or breastfeeding women.
- Clinical studies carried out on rats suggest that Retinyl Palmitate might accelerate the growth
 of tumor cells.
- Many scientists believe that as Retinol increases cellular turnover, it also causes thinning of the skin with prolonged use.
- Due to photochemical and hydrolytic instability, use of products that contain Retinol is primarily restricted to night time.
- Physical side effects include redness, irritation, stinging, burning, itching, skin flaking, & significant sensitivity to sunlight.

With modern technology there really is no reason to choose anti-aging skincare that still uses Retinol.

BAKUCHIOL: A RETINOL-LIKE FUNCTIONAL COMPOUND REVEALED BY GENE EXPRESSION PROFILING AND CLINICALLY PROVEN TO HAVE ANTI-AGING EFFECTS

DOUBLE BLIND CASE STUDY RESULTS

Prospective, randomized, double-blind assessment of topical Bakuchiol and Retinol for facial photoageing. Dhaliwal S, et al. Br J Dermatol. 2019.

Abstract

BACKGROUND: Bakuchiol is a phytochemical that has demonstrated cutaneous antiaging effects when applied topically. Early studies have suggested that Bakuchiol is a functional analogue of topical retinoids, as both compounds have been shown to induce similar gene expression in the skin and lead to improvement of cutaneous photo damage. No in vivo studies have compared the two compounds for efficacy and side-effects.

OBJECTIVES: To compare the clinical efficacy and side-effect profiles of Bakuchiol and Retinol in improving common signs of cutaneous facial ageing.

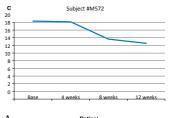
METHODS: This was a randomized, double-blind, 12-week study in which 44 patients were asked to apply either Bakuchiol 0.5% cream twice daily or Retinol 0.5% cream daily. A facial photograph and analytical system was used to obtain and analyse high-resolution photographs of patients at 0, 4, 8 and 12 weeks. Patients also completed tolerability assessment questions to review side-effects. During study visits, a board-certified dermatologist, blinded to study group assignments, graded pigmentation and redness.

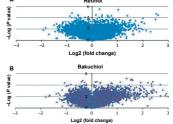
RESULTS: Bakuchiol and Retinol both significantly decreased wrinkle surface area and hyperpigmentation, with no statistical difference between the compounds. The Retinol users reported more facial skin scaling and stinging.

CONCLUSIONS: Our study demonstrates that Bakuchiol is comparable with Retinol in its ability to improve photo ageing and is better tolerated than Retinol. Bakuchiol is promising as a more tolerable alternative to Retinol.









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L'ABEILLE PRODUCTS CONTAINING BAKUCHIOL:

COPPER TRIPEPTIDE-1

(GHK-CU)

Activate stem cells & reset DNA

The development of bio-active peptides has opened a new field in cosmeceutical and pharmaceutical skin care. In the last two decades, many new peptides have been developed, and new knowledge on how peptides improve the skin has been uncovered. The spectrum of peptides in the field of cosmetics is continuously growing.

GHK is present in human plasma but declines with age. The copper tripeptide used in L'abeille is bio-identical to the copper containing enzyme in our body that assists in tissue repair, cell metabolism, inflammation processes and the synthesis of vital molecular structures in our body.

Copper Tripeptide is a carrier peptide that delivers trace elements of copper, necessary for wound healing and enzymatic progress. This peptide is involved in copper transport into skin cells. Copper tripeptide (Cu-GHK) is one of the most well-examined peptides. It plays a role in the extracellular matrix, and is released in wounds or inflammation to support healing and repair. Cu-GHK stimulates cellular regulatory molecules and regenerates, and heals skin and other tissues. GHK significantly increased the expression of DNA repair genes ensuring better wound healing. It acts as signalling peptide and promotes regular collagen, elastin, proteoglycan, and glycosaminoglycan synthesis, provides anti-inflammatory and antioxidant responses. Stem cells treated with GHK regenerated and expressed more stem cell markers.

In cosmetic products, it has been found to tighten loose skin and improve elasticity, skin density, and firmness, reduce fine lines and wrinkles, reduce photodamage, and hyperpigmentation, and increase keratinocyte proliferation. GHK has been proposed as a therapeutic agent for skin inflammation. It is capable of up- and downregulating at least 4,000 human genes, essentially resetting DNA to a healthier state.

The below data summarizes some of the results from controlled in-vivo studies on human skin of the cosmeceutical peptide – GHK-CU (Copper Tripeptide) that works against intrinsic and extrinsic aging.

FACIAL STUDIES

A number of placebo-controlled clinical studies found GHK-Cu to improve skin quality in women around the age of 50. Experiments have shown that in vitro Cu-GHK increases and stimulates the synthesis of collagen, glycosaminoglycans and other extracellular matrix molecules. Several placebo-controlled clinical trials have confirmed the observed effects. A topically applied cream with Cu-GHK was shown to stimulate dermal skin procollagen synthesis.

Synthesis induced by the copper tripeptide was significantly superior to vitamin C, tretinoin, or melatonin in comparison.

A GHK-Cu facial cream reduced visible signs of aging after 12 weeks of application to the facial skin of 71 women with mild to advanced signs of photoaging. The cream improved skin laxity, clarity, and appearance, reduced fine lines and the depth of wrinkles, and increased skin density and thickness.

A GHK-Cu eye cream, tested on 41 women for twelve weeks with mild to advanced photodamage, was compared to a placebo control and an eye cream containing vitamin K. The GHK-Cu cream performed better than both controls in terms of reducing lines and wrinkles, improving overall appearance, and increasing skin density and thickness.

In another 12-week facial study of 67 women between 50 and 59 years with mild to advanced photodamage, a GHK-Cu cream was applied twice daily and improved skin laxity, clarity, firmness and appearance, reduced fine lines, coarse wrinkles and mottled pigmentation, and increased skin density, and thickness. The cream also strongly stimulated dermal keratinocyte proliferation as determined by the histological analysis of biopsies.

UP-TO-DATE, IT IS ESTABLISHED THAT GHK-CU IS ABLE TO:

- · Tighten loose skin and reverse thinning of aged skin · Repair protective skin barrier proteins
- · Improve skin firmness, elasticity, and clarity
- · Smooth rough skin
- · Reduce photodamage, mottled hyperpigmentation, skin spots and lesions
- · Protect skin cells from UV radiation
- · Strongly increase keratinocyte proliferation

- · Reduce fine lines, depth of wrinkles, and improve structure of aged skin
- · Improve overall skin appearance
- · Stimulate wound healing
- · Reduce inflammation and free radical damage

EXCERPT INFORMATION OBTAINED FROM THE BELOW PUBLISHED MEDICAL ARTICLES

1. Topical Peptide Treatments with Effective Anti-Aging Results

Silke Karin Schagen

Beldio Research GmbH: Kramerstrasse 15, 87700

Memmingen, Germany

Received: 26 December 2016; Accepted: 16 May 2017; Published: 22 May 2017

Academic Editor: Marie Loden

2. BioMed Research International

GHK Peptide as a Natural Modulator of Multiple Cellular Pathways in Skin Regeneration Volume 2015, Article ID 648108

Loren Pickart, Jessica Michelle Vasquez-Soltero, & Anna Margolina

Skin Biology, Research & Development Department, 4122 Factoria Boulevard, SE Suite No. 200

Bellevue, WA 98006, USA

Received 21 November 2014; Revised 17 March 2015;

Accepted 9 April 2015

Academic Editor: May Griffith

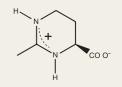
L'ABEILLE PRODUCTS CONTAINING COPPER TRIPEPTIDE-1:

· Peptide Restore

ECTOINE

THE ACTIVE CELL PROTECTOR

From nature to science to cosmetic care



THE SUPER MOISTURISER

Ectoine is a natural extremolyte found in bacteria which grows under extreme conditions of salinity, drought, irradiation, pH, and temperature. Ectoine binds strongly to water molecules, thereby forming a protective hydrate shield around proteins and other biomolecules. It works via a mechanism known as "preferential exclusion" i.e., it is preferentially excluded from the hydrate shield, which protects proteins from damage and irreversible denaturation and stabilizes biological membranes. This patented cell protection booster is compatible with the metabolism of the cell & protects the skin from environmental stressors. It reverses the unsightly & unhealthy effects of daily exposure to sunlight, pollution & stress. By supporting your skins immune system, Ectoine keeps your skin healthy, while visibly & measurably reducing & preventing wrinkles. Proven protecting mechanisms prevent damage to your skin, allowing it to regenerate, rejuvenate & repair the appearance of aged skin. In vivo assessments confirmed that Ectoine shrinks existing wrinkles & keeps new ones from forming. It not only supports the skins repair mechanism to UV damage, but also speeds up its defense system, protecting cells against stress 2 to 3 times faster than normal. Ectoine reliably helps to prevent premature photo-aging by binding water molecules & forming nourishing hydration shells around skin cells. Ectoine arms your skin against exposure & prevents dryness, giving you smoother, more supple skin.

The skin is home to beneficial microorganisms that work to protect the skin and keep pathogens away, an unbalanced or disrupted microbiome can cause negative skin reactions, both medical and cosmetic. Ectoine helps balance the skin microbiome, working as a prebiotic.

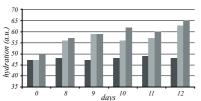
PROPERTIES IN L'ABELLIE:

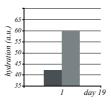
Proven properties like:

- · Protects & stops skin damage induced by UVA radiation
- · Reduces the formation of sunburn cells & prohibits light-induced skin aging
- · Reduces chemical and physical damage to cell membranes.
- · Prevents damage to Langerhans Cells
- · Protects & strengthens the skin's natural cellular immune-system
- · Super-Moisturizer, stabilising skins moisture due to its water binding capacity, providing long-term moisturising benefits
- · Prevents water loss in dry atopic skin. Demonstration of strong water formation power via molecular modelling
- · Anti-inflammatory action
- · Stabilization of skin moisture due to its water binding capacity
- · Enhances skin wellness sensation and is suitable for sensitive skin
- · Proven wrinkle reduction

MOISTURE RESERVOIR WITH ECTOINE (in vivo)

Treatment with RonaCare® Ectoin 0.5%, 1% for 12 days, evaluating after 8, 9, 10, 11 & 12, 19 day via corneometer





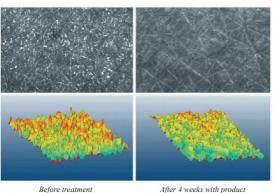
■ Placebo ■ 0.5% Ectoin ■ 1.0% Ectoin

RonaCare® Ectoine creates a moisture accumulation in the skin, still detectable after 7 days of last application



REPAIR AND WELLNESS ENHANCER - Improvement In Skins Surface (Visioscan) Evaluation of repair options using RonaCare®Ectoine

· In vivo evaluation of skin surface after 4 weeks treatment



After 4 weeks with product containing 2% RonaCare® Ectoin

L'ABEILLE PRODUCTS CONTAINING ECTOINE:

· Resurfacing Drops

· Hvdra-Mist

- Youth BoostHyaluron-3





MARINE BLUE VITAL C

ONE OF LABEILLES UNIOUE & EXCLUSIVE ACTIVES

Country of origin: France

METHOD OF MANUFACTURE

Marine BlueVital C is obtained by the careful combination of the Caprylic Capric Triglyceride with the Cylindrotheca Fusiformis Extract following a maceration process in a closed container at cold temperature under specific agitation during a controlled time. The microalgae inoculum of Cylindrotheca Fusiformis is cultivated in a photosynthetic field, in a plant on the Riviera, in closed photo bioreactor. The bioreactor is provided with appropriate sunlight and CO2. The inoculum multiplies in a specific culture medium and the microalgae biomass is obtained following a certain time of cultivation. The biomass is then harvested, dried and controlled. The biomass is then extracted to obtain the Cylindrotheca Fusiformis Extract.

PROPERTIES IN L'ABEILLE:

Formulation of anti-ageing, anti-wrinkle treatments tailored to suit the story of your skin. It will inspire your lifestyle, your emotions and your environment with an action on the youth and vitality of your skin. Skin care (0,5 2,0%), anti-wrinkle, anti-ageing and moisturising creams, daily creams, eye serums. Used in all kinds of formulations for a "Blue" anti-ageing/anti-wrinkle claim.

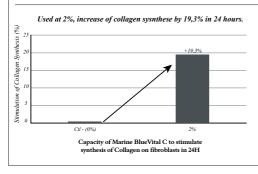
COLLAGEN SYNTHESIS IN VITRO TEST:

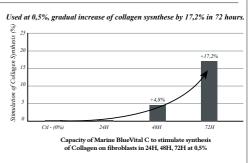
Aim of study: In vitro evaluation of collagen synthesis in human skin fibroblasts exposed to Marine BlueVital C at different concentrations. Collagen synthesis is measured by means of colorimetric assays.

Protocol: • Monolayer culture of human fibroblasts (ATCC-CRL-2703) • Three different concentrations: 0.5%, • 1.0% and 2.0% • Three different times: 24h, 48h, 72h • Controls without the active

Collagen assay: Quantitative dye-binding method with Sirius Red.

Results: Measure of mean collagen content (μg) and % variation compared to untreated cell cultures (CTR-).





Marine BlueVital C has an immediate and excellent efficacy on collagen synthesis at 2%. At small dosage (less than 1%), Marine BlueVital C has a time dependent good efficacy. Highly effective active: with 0,5% almost same collagen production as with 2% over a slightly longer period.

EVALUATION OF ANTI-WRINKLE EFFICACY

Aim of study: In vivo evaluation of changes of the wrinkles after a repeated application on healthy human skin of two cosmetic products (with and without Marine BlueVital C) by fringe projection.

Protocol: 21 volunteers, female, 35-55 years, T0-T1m-T2m, hemi-facial application of the active cream (1,5% of Marine BlueVital C) and placebo cream twice per day.

Technique: Dermatop Blue uses Breuckmann technology based on a fringe projection unit using blue light combined with imaging techniques.

Calculations and statistics:

Rz (mm): Average Maximum profile height difference: represents the average width of the negative peak Ra (mm): Linear average profile roughness: represents the arithmetic average of the volume of the micro profile of the skin.

Variation % = [(v1-v0)/v0]x100, Student t-tes

Results:

Placebo	1 month		2 months	
Compared to T0, %	Marine BlueVital C	Placebo	Marine BlueVital C	Placebo
Main wrinkle	-8,2%	0,4%	-10,4%	0,5%
average depth (Rz)	a<0,01	ns	a<0,01	ns
Main wrinkle average depth (Ra)	-8,8%	-0,2%	-12,0%	-0,1%
	a<0,01	ns	a<0,01	ns

Marine BlueVital C significantly decreases wrinkle depth and volume at only 1,5% of use and already after 1 month of use.

Illustrative results:

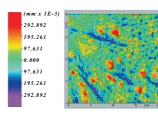
Photo of wrinkles crow's feet before and after application of a cream with 1.5% Marine BlueVital C

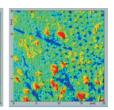




MICRO-RELIEF EVALUATION SHOWING SKIN IMPROVEMENT IN 2 MONTHS DERMASURE SOFTWARE

Marine BlueVital C visibly decreases appearance of wrinkles at only 1,5% of use after 2 months of use. The formulation containing 1,5% Natura-Tec Marine Blue vital C shows significant anti-wrinkle results when compared to the placebo formulation. In 2 months, with 2 applications per day, the wrinkle depth decreases by 10,4%, and the wrinkle volume decreases by 12% when compared to TO.





NIACINAMIDE

Vitamin B3

Niacinamide is a standout cosmetic ingredient because of its versatility for almost any skin care concern and skin type. Research about niacinamide unanimously demonstrates how versatile and effective it is, and continued research keeps showing it's one of the most exciting skin care ingredients around.

WHAT IS NIACINAMIDE?

Also known as vitamin B3 and nicotinamide, niacinamide is a water-soluble vitamin that works with the natural substances in your skin to help visibly improve enlarged pores, uneven skin tone, fine lines and wrinkles, dullness, and a weakened barrier.

Niacinamide also reduces the impact of environmental damage because of its ability to improve the skin's barrier (its first line of defense), plus it also plays a role in helping skin to repair signs of past damage. Left untreated, this type of daily environmental assault makes skin appear older, dull, and less radiant.

WHY YOU SHOULD USE NIACINAMIDE

Niacinamide is uniquely compatible with any of the products in your skin care routine, including those that contain retinol, peptides, hyaluronic acid, AHAs, BHA, vitamin C, and all types of antioxidants. Niacinamide is an impressive ingredient, that when incorporated into skin care products like toners, serums, and highly concentrated skin care boosters, is an extremely effective active

Multiple niacinamide-containing products can be incorporated in your skincare routine, and it will still be non-sensitizing as it is an ingredient that is well tolerated by all skin types, and suitable for those with sensitive or rosacea-prone skin.

Niacinamide helps to renew and restore the surface of skin against moisture loss and dehydration by helping skin improve its natural production of skin-strengthening ceramides. When ceramides become depleted over time, skin is left vulnerable to all sorts of problems, from persistent patches of dry, flaky skin to increasingly becoming extra-sensitive.

Topical application of niacinamide has been shown to boost the hydrating ability of moisturizers so that the skin's surface can better resist moisture loss that leads to dry, tight, flaky skin. Niacinamide works brilliantly with common moisturizer ingredients like glycerin, plant oils, sodium PCA, and sodium hyaluronate. This is why we have combined all these ingredients into our HYDRA-BRIGHT ESSENCE

How does Niacinamide reduce pore size? It seems that niacinamide has a normalizing ability on the pore lining, and that this influence plays a role in keeping debris from getting backed up, which leads to clogs and rough, bumpy skin. As the clog forms and worsens, the pores stretch to compensate, and what you'll see is enlarged pores.

By helping things get back to normal, niacinamide use helps pores return to their normal size.

HOW TO USE NIACINAMIDE

Use niacinamide products along with other beneficial ingredients like antioxidants (POTEN-C), skin-restoring agents, and other skin-replenishing ingredients.

For best results, use leave-on products with niacinamide and apply them to cleansed skin twice daily. Apply the HYDRA-BRIGHT ESSENCE immediately after cleansing to rehydrate and replenish skin. Followed with the RICH RESTORING PEPTIDE CREAM in the mornings/evenings to give your skin an extra boost of skin restoring actives and added niacinamide. Finish you regime with GLOW INTENSE SERUM/PHYTO-RETINOL SERUM to add to your skin replenishing actives and seal in all the treatment serums.

Niacinamide-containing products can be around your eyes. It helps improve the look of under eye circles, helps soften the appearance of crow's feet, and enables this delicate area to retain skin-smoothing moisture and resist loss of firmness.

Niacinamide brings many topical benefits to improve skin's appearance, so it appears more even, brighter, and younger.

REFERENCES FOR THIS INFORMATION:

Experimental Dermatology, February 2019, Supplement 1, pages 15-22; and October 2018, ePublication

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Journal of Investigative Dermatology, May 2017, page S116

International Journal of Pharmaceutics, March 2017, pages 158-162; and January 2013, Pages 192-201

Facial Plastic Surgery Clinics of North America, May 2016, pages 145-152

Clinical, Cosmetic, and Investigational Dermatology, July 2015, pages 405-412

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International Journal of Pharmacy, January 2013, pages 192-201

Dermatoendrocrinology, July 2012, pages 308-319

Dermatologic Surgery, Volume 31, Part 2, 2005, Discussion 865

International Journal of Cosmetic Science, October 2004, pages 231-238

Journal of Cosmetic Dermatology, March 2004, pages 88-93

L'ABEILLE PRODUCTS CONTAINING NIACINAMIDE:

· Peptide Restore

· Hyaluron-3

· NIACIN-B

RENOUMER

ONE OF LABEILLES UNIQUE & EXCLUSIVE ACTIVES THE POWERFUL OCEAN SECRET

Country of origin: France

DISCOVER THE BEAUTY SECRETS OF THE ERENCH OCEAN

Ocean life is one of the last secrets of our planet. Therefore, the ocean is still a source of undiscovered health and beauty solutions. Scientists from Agrimerhave searched the vibrant biotopes of the Breton coast for new plant sources to create effective skin beautifying solutions. This joint effort resulted in a breakthrough discovery of the naturally occurring and newly characterized Polysiphoniaelongata red algae.

"STAY YOUNG" - Renoumer has been developed from the nourishing cytoplasma of the newly characterized Breton red Algae Polysiphonia Elongata. This species lives exposed in full light and has developed cell protection processes. Through cytoplasmic extraction, we found the most extraordinary skin rejuvenation properties.

It turns out that cytoplasmic components of these algae are highly effective in both counteracting photoaging, and in promoting collagen renewal, which supports skin firmness

UNIOUE. RARE & VALUABLE IN L'ABFILLE:

Collagen is a powerful spring of youth. As collagen renewal gradually becomes weaker with increasing age, the dermis gets thinner, stores less water and the skin loses its smoothness. In vitroand in vivo studies impressively demonstrate how RenouMer counteracts this development with the power of ocean secrets restoring and maintaining our skins powerful 'Spring of Youth'. Renoumer is suitable for ages 20 to 80+.

RENOUMER Benefits:

- Direct impact on collagen and skin smoothing
 Makes use of holistic and nourishing cytoplasm plus skin densifying effect
- Improved skin moisture and elasticity
- · Positive impact on algae diversity in Brittany
- as a natural principle of life
- · Based on the discovery of new ocean sources

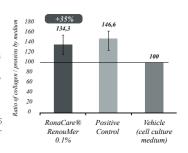
COLLAGEN SYNTHESIS IN VITRO TEST:

Investigation of stimulation of fibroblast-derived collagen synthesis Cell line: Human fibroblast MRC-5 cell line

Positive control: TGF-B (transforming growth factor-B) (1 ng/ml)/ EGF (epithelial growth factor) (10 ng/ml)

Test product: RenouMer (0.1%)

Staining: The collagen was stained by Sirius red staining solutions Absorption: 500 nm with a Mutiskan®EX* microplate photometer



+ 35% collagen synthesis

IN VIVO TESTING: Smoothing of skin surface (3d primos):

A decrease in Ra characterizes a smoothing effect. Ra value demonstrates the smoothing effect.

- RonaCare®RenouMer (2%) shows a smoothing effect
- RonaCare®RenouMer performed two times better than benchmark after 56 days of treatment

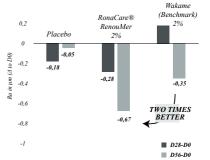
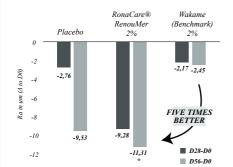


Figure 1: The Ra values were determined by 3D Primos®. Adjusted changes from baseline (D0) are shown.

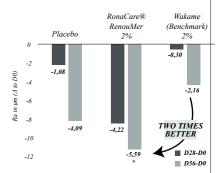
Anti-wrinkle microstructure of skin surface (3d primos):

 Renoumer (2%) shows a significant anti-wrinkle effect better than after 56 days treatment



Rt VALUE DEMONSTRATES THE ANTI-WRINKLE EFFECT Figure 1: The Ra values were determined by 3D Primos®. Adjusted changes from baseline (D0) are shown.

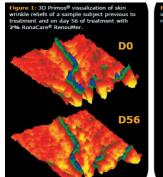
 Renoumer performed up to five times the benchmark

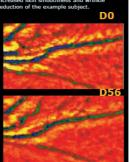


Rz VALUE DEMONSTRATES THE ANTI-WRINKLE EFFECT Figure 1: The Ra values were determined by 3D Primos®. Adjusted changes from baseline (D0) are shown.

Renoumer (2%) shows a significant anti-wrinkle effect after 56 days treatment. Renoumer performed up to five times better than the benchmark.

3D PRISMOS PICTURES SHOW SUPERIOR ANTI-WRINKLE EFFECT:





The observation of these pictures provides a clear impression of treatment success by RenouMer.

Furthermore, he determination of skin smoothness (Raupto-15,8%*) and wrinkle parameters (Rtupto-22,5%*;Rzupto-15,5%*) helps to quantify the treatment progress of the sample subject.

*Values extracted from one single test subject

CROW'S FEET PICTURES DEMONSTRATE SUPERIOR ANTI-WRINKLE EFFECT:

These photos impressively demonstrate the reduction of crow's feet after 56 days of treatment with RenouMer



FIGURE 1: Crow's feet picture of sample subject previous to treatment with 2% BenouMer.



FIGURE 2: Crow's feet picture of sample subject after 56 days of treatment with 2% RenouMer

SUPERIOR SKIN REDENSIFYING EFFECT:

FIGURE 1: The skin re-densifyingeffect of wakameis not different from placebo. The skin re-densifying effect of 2% RenouMer is significantly better than benchmark after 56 days.

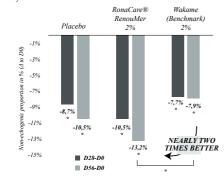
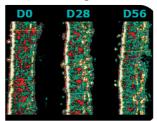


FIGURE 2: The high frequency echogram of skin treated with 2% RenouMer shows the impressive decrease of tissue gaps (red) and improved conjunctive tissues (green to yellow) over the course of treatment. This improvement is especially visible in the deeper skin regions (dermis). This supports the hypothesis that 2% RenouMer improves collagen fibres.



The high frequency echo graph allows the bi-dimensional visualisation of the skin on epidermis & dermis levels with a 13mm penetration. The ratio of the non-echogenic surface to the total surface (non-echogenic proportion in %) characterises the dermis density.

- Red illustrates non-echogenic tissues (water)
- Yellow & green indicates conjunctive tissue

SUPPORT OF SKIN HYDRATION:

FIGURE 1: Skin hydration investigated via Corneometer® CM825*. Adjusted changes from baseline (D0) are shown.

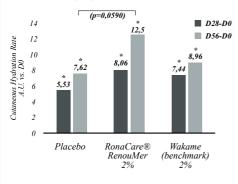
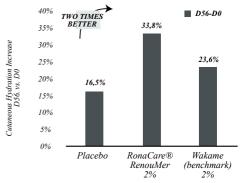
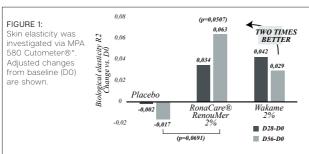


FIGURE 2: Skin moisture improvement (% changed to baseline based on mean values)



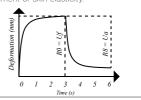
All treated subjects showed a clear improvement of skin moisture status. However, the positive skin hydration effect of RenouMer is much higher than the effect of the placebo or reference test product. The renewal of collagen fibres supports a favourable environment for improved skin moisture.

IMPROVEMENT OF SKIN ELASTICITY:



Study Parameter: R2

- · R2 demonstrates the biological cutaneous elasticity.
- It is defined as the ratio of the initial state (Ua) to the final distension (Uf)
- An increase of the R2 parameter indicates an improvement of skin elasticity.

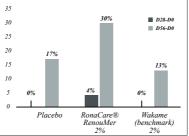


CLINICAL WRINKLE SCORE:

A dermatologist evaluated and documented the individual skin wrinkle status in accordance with a standardized wrinkle score on day 0, 28 and 56.

State of wrinkles:
Proportion of the sample subjects with an improvement in wrinkle score.

RenouMer showed a superior clinical anti-wrinkle effect.



RENOUMER TEST RESULTS:

In vitro

- Up to 35% collagen increase In vivo with 2% RenouMer
- \cdot +17% skin hydration vs. placebo after 56 days
- Twice as good as benchmark (Wakame) in skin smoothing
- Significant dermis re-densifying effect after 56 days
- · Superior wrinkle reduction
- · Improved skin elasticity

L'ABEILLE PRODUCTS CONTAINING RENOUMER:

· Youth Boost

· Peptide Restore

· Hydra-Mist

· Hyaluron-3

ALPHA HYDROXY FRUIT ACID COMPLEX

Vaccinium Myrtillus Fruit Extract, Saccharum Officinarum (Sugar Cane) Extract, Citrus Aurantium Dulcis (Orange) Fruit Extract, Citrus Limon (Lemon) Fruit Extract & Acer Saccharum (Sugar Maple) Extract.

A contributing factor to AHA efficacy is its differentiation from other organic acids. AHAs have a hydroxyl (OH) group in the alpha position that is relative to the carboxyl (COOH) group. Theories for the mechanism of AHA-activity range from the sequestration of Ca2+ and the associated disruption of divalent metal cation-dependent cell adhesion molecules to the roles of AHAs as intermediates in a variety of metabolic pathways.

The topical use of AHAs dates back to the beginning of recorded history. Traditional skin care treatments for softening skin have included milk and lemon juice, both of which contain AHAs. Since then, products comprised of AHAs have become widely used in cosmetics. Consumer attention was first captured when AHA products incorporating fruit and sugar derivatives were initially marketed towards acne treatments, anti-aging products and hyperpigmentation applications. From capabilities such as smoothing fine lines to help minimize the appearance of wrinkles, AHAs are favoured for improving skin tone and condition, while enhancing overall texture.

Immediately perceivable results, excellent for problem skin, increases rate of cellular renewal, moisturizing, decreases appearance of wrinkles. With the use of Alpha Hydroxy Acids you will feel and see an immediate difference in your skin – skin is smoother & brighter with a diminished appearance of fine lines. Natural Alpha Hydroxy Acids (AHAs) work to improve moisturization while simultaneously increasing the production of structural components, such as collagen & glycosaminoglycan. Our Fruit Acid Complex will work to help brighten skin, shed dullness & deliver much needed therapeutic benefits so you can glow.

THE SCIENCE

5 Fruit Extracts - Bilberry, Sugar Cane, Orange, Lemon, and Sugar Maple. These botanical extracts deliver five natural AHAs to the skin: Lactic Acid (from Bilberry), Glycolic Acid (from Sugar Cane), Citric Acid (from Orange and Lemon), and Malic and Tartaric Acids (from Sugar Maple). These AHAs are commonly used to treat skin conditions such as rough skin, surface wrinkles & fine lines. Recognized for having exfoliating properties, AHAs leave the skin with a smooth and radiant appearance.

Glycolic acid, the smallest molecular structure of the group, reaches the deeper layers of the skin, making it an excellent exfoliating agent that provides immediate skin softening effects. Glycolic acid loosens corneocyte attachments & reduces cell cohesion at the lower level of the stratum corneum to promote cellular renewal. As new skin cells generate, older cells slough off to reveal smoother looking skin. Factors such as sun damage, age & environmental stress slow down this process, which results in the accumulation of dead skin cells. The use of alpha-hydroxy acids can combat the problem by breaking proteolytic bonds to increase cellular renewal. Moreover, glycolic acid allows the capillaries to dilate & deliver more oxygen & energy to the cells for increased intracellular efficiency. In addition to increasing collagen and glycosaminoglycan (GAG) synthesis, Glycolic acid treatments also increase type I collagen mRNA & hyaluronic acid content of our skin.

Lactic acid is an excellent moisturizing ingredient. One of the key benefits for using lactic acid in antiaging applications is that research has also shown it is capable of reversing cutaneous atrophy. This will help thicken the skin to create a more youthful aesthetic. Citric acid is an intermediate in the Krebs cycle and is integral for ATP production, which helps to promote healthy skin by stimulating the formation of fibrous protein.

The Krebs cycle, also known as Citric Acid Cycle, occurs in the mitochondria of our cells. This cycle is responsible for metabolizing sugar intake thus breaking it down into carbon dioxide, water & energy. In skin biology, Citric Acid provides cells with a source of useable energy. This, in turn, contributes to the factors that chemically exfoliate the outer layer of the epidermis.

Malic & Tartaric Acids also influence skin tone & have been shown to increase elasticity, which is an important factor for enhancing skin strength & complexion clarity.

SKIN BENEFITS IN L'ABEILLE:

Fruit Acids works to brighten skin, leaving any signs of dullness behind. They help normalize the skin by weakening corneocyte adhesion along the stratum corneum to improve exfoliation & enhance cellular proliferation. Experience instantly softer, smoother & more luminous skin.

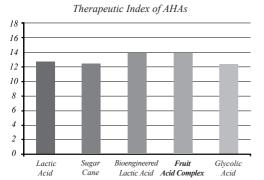


FIGURE 1: The comparison of therapeutic indices suggests that the Fruit Acid Complex rates equal or higher on the therapeutic index than both synthetic glycolic and lactic acids

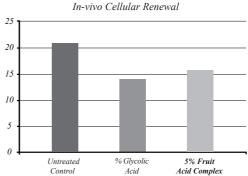
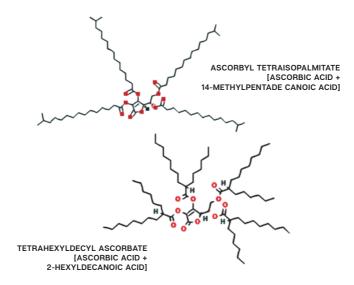


FIGURE 2: The cellular renewal study indicates that the **Fruit Acid Complex** is capable of increasing cellular renewal and is comparable to synthetic Glycolic Acid.

L'ABEILLE PRODUCTS CONTAINING AHA FRUIT ACID COMPLEX: Resurfacing Drops

ASCORBYL TETRAISOPALMITATE (ATIP)

A stable form of Vitamin C - the tetraester of ascorbic acid and isopalmitic acid. It is a clinically proven, stable, oil-soluble vitamin C derivative. It offers superior percutaneous absorption and effectively converts to free vitamin C in the skin. This multi-functional ingredient inhibits tyrosinase and melanogenesis activity to brighten, protects from UV-induced damage, provides potent antioxidant functionality, and supports collagen synthesis. It works as a powerful antioxidant and whitening agent, with both anti-acne and anti-aging capabilities. Like other forms of Vitamin C, it helps prevent cellular aging by inhibiting the cross-linking of collagen, oxidation of proteins, and lipid peroxidation. It also works synergistically with the antioxidant Vitamin E, and has demonstrated superior stability. Many studies have confirmed the skin lightening, photo-protective, and hydrating effects it can have on the skin. Ascorbyl tetraisopalmitate will not exfoliate or irritate the skin and is well tolerated by even the most sensitive skin types.



WHAT ATIP CAN DO:

Some scientifically proven ascorbyl tetraisopalmitate benefits include:

- Remains in the skin cells forty to eighty times longer than l-ascorbic acid and will have as much as four times the effect
- Allows for faster percutaneous absorption than other forms of vitamin C-cells absorb 10 times the concentration of ATIP compared to I-ascorbic acid (manufacturer's study)
- Is a proven precursor of vitamin C and effectively suppresses UVB-induced skin pigmentation
- · Reduces trans-epidermal water loss, increases skin elasticity, and visibly improves skin texture
- Whitening: Lighten skin, fade & improve dark spots
- Anti-aging: Improve collagen synthesis and reduce the appearance of wrinkles
- · Anti-oxidant: Scavenge free radicals & protect cells against UVB radiation
- Anti-inflammation: Prevent & minimise acne & acne scarring

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L'ABEILLE PRODUCTS CONTAINING ASCORBYL TETRAISOPALMITATE:

· Antioxidant-C Defence Serum