

LEMON BOTTLE

S K I N B O O S T E R



LEMON BOTTLE SKIN BOOSTER is a solution that combines 11 high-content amino acids, multivitamins, multi-peptides, and antioxidants required for skin cells with HA to provide them directly to the skin, engaging in the new production of collagen and elastin and **supplying nutrients needed for the skin.**

LEMON BOTTLE

SKIN BOOSTER



FEATURE

Effect of LEMON BOTTLE SKIN BOOSTER

Improve skin
elasticity &
Anti-wrinkle

Brightening

Hydration

Smoothing
& Skin tissue
recovery

Improving
pores

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A STRONG ANTIOXIDANT CHAIN

LEMON BOTTLE SKIN BOOSTER is a **Skin Booster solution with a strong antioxidant chain** made up of **the optimal combination** of high-content vitamins, amino acids, peptides, antioxidants, and hyaluronic acid of polymers required to prevent skin aging and improve skin.

Peptide 4

Amino acid 11

Hyaluronic
acid 1

Vitamins and
Antioxidant 8
Etc.

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INGREDIENTS

4

Peptide

Oligopeptide-4
Oligopeptide-2
Oligopeptide-1
Palmitoyl Tripeptide-1

11

Amino Acid

Valine
Threonine
Isoleucine
Tryptophan
Glutamic Acid
Tyrosine
Cysteine
Phenylalanine
Methionine
Leucine
Lysine

8

Vitamins and
Antioxidant

Biotin
Dexpanthenol
Thiamine HCl
Ascorbic Acid
Madecassoside
Madecassic Acid
Sodium DNA
Glutathione

1

Sodium
Hyaluronate

HA

non-crosslinked HA

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FEATURE

Key Ingredients

Sodium Hyaluronate

It's a natural moisturizer with a smaller molecular size than hyaluronic acid.

Sodium DNA

Effects on skin regeneration, collagen, and elastin synthesis.

Palmitoyl Tripeptide-1

Multi Vitamin

Glutathione

Madecassoside

Multi Amino acid

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COMPONENTS

MULTI VITAMIN

B1

Vitamin B1 acts as a powerful antioxidant, removing toxins from the body and increasing circulation, helping to cultivate healthy and shiny skin. Thiamine HCL(B1) protects the skin by preventing harmful effects and early aging of free radicals. For example, fine wrinkles, wrinkles, black mushrooms, etc.

B7

Biotin (B7) is a type of water-soluble vitamin containing sulfur, belongs to the vitamin B complex, is also called vitamin B7 or vitamin H, and is one of the substances that make up nails and skin. It is involved in the action of fat and amino acids to help manage healthy skin and hair. If biotin is insufficient, it usually causes hair loss, dry skin, and weak nails.

B5

Panthenol, which strengthens the skin barrier, promotes skin healing, which helps relieve eczema and tanned skin. Panthenol, such as chemical peeling, promotes skin healing, which also helps relieve eczema and tanned skin.

**Vita
C**

Vita - c inhibits melanin production such as freckles and freckles to prevent pigmentation and maintain a clear tone of skin. When used with other antioxidants that remove free radicals, it helps prevent aging with high antioxidant effects.

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COMPONENTS

Amino acid 11

Eleven amino acids are mixed at an optimal ratio to promote synthesis of new collagen and elastin, making the skin clean and elastic.

Proliferating fibroblast / Reduced collagen decomposition rate
Promote collagen synthesis / Production of growth factors (TGF β)



The most efficient way to
replenish collagen,

Deliver it directly to the skin

Transdermal delivery of amino acids and antioxidants enhance collagen synthesis: in vivo and in vitro studies

Bo Han¹, Marcel E Nijss

Affiliations + expand

PMID: 16546829 DOI: 10.1080/03082200500416716

Abstract

One of the most visible changes associated with the aging process in humans relates to a progressive thinning of the skin. This results from a decline in both collagen and glycosaminoglycans, as well as from changes in their chemical structure and 3-dimensional organization. Transdermal administration of antioxidants, α -lipoic acid (LA) (0.5%) and proanthocyanidin (PA) (0.3%) in a standard cosmetic vehicle base formulation supplemented with 2% benzyl alcohol as a penetration enhancer, a mixture of essential amino acids (0.2%), significantly enhanced collagen synthesis and deposition. The amino acid mixture was designed to mimic serum concentrations, with supplemental methionine added to provide additional sulfur. The histological appearance of the skin of mature female rats treated in this fashion reflected the increased deposition of collagen in the dermis as well as a thickened epidermal layer. The changes do not seem to be mediated by TGF- β 1 or PDGF, two growth factors known to stimulate collagen synthesis. At lower concentrations, α -lipoic acid did not affect cell proliferation but at higher doses, while it had an inhibitory effect on [³H]-thymidine uptake, it did enhance collagen production. Proanthocyanidin did not affect cell proliferation but significantly increased collagen synthesis by cultured fibroblasts.

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Amino acid Complex to your skin

=

like as **Taking nutritional supplements**

Amino acid Complex

Moisturizing
Cell proliferation
TIMP-1 mRNA
Improvement on
the skin surface

Anti-Aging supplement

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COMPONENTS

MULTI PEPTIDE

It improves the skin and helps recover damaged cells. Disturbance in the skin circulation cycle adversely affects skin tone and texture and Multi peptide has a positive effect on cells and **is effective in skin recovery**.

Peptides, which are effective in improving wrinkles, temporarily inhibit neurotransmitters that cause aging to promote collagen production and inhibit collagen decomposition **to prevent wrinkle**.



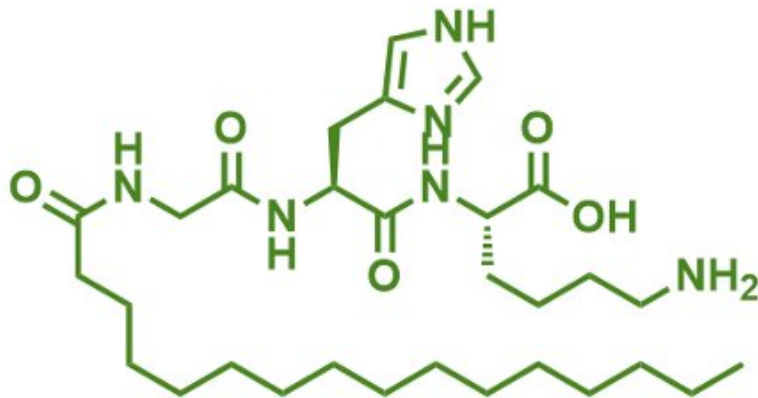
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COMPONENTS

PALMITOYL TRIPEPTIDE-1

It is also called "Pal-GHK" and has similar effects to retinol, but has no side effects on the skin. It mainly protects tissues, prevents inflammation caused by tissue damage, and promotes collagen synthesis, improving skin elasticity and improving wrinkles. It also regenerates damaged proteins and replaces damaged tissues with normal tissues to help rebuild skin tissues.



Structural Representation of Palmitoyl Tripeptide-1(Pal-GHK)

A Study on the Skin Anti-wrinkle Effect of Novel Palmitoyl Tripeptide

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요약: 콜라겐은 포유동물의 가장 풍부한 동물성 단백질로, 전체 단백질의 약 30%를 차지하며, 결합 조직에 존재하며 대부분의 장기의 구조적 지지에 기여한다. Tripeptide (glycine-proline-hydroxyproline; INCI name *Tripeptide-29*)는 collagen type I의 주성분이며, palmitoyl tripeptide (palmitoyl-glycine-proline-hydroxyproline; INCI name *Palmitoyl Tripeptide-29*)는 콜라겐의 합성을 촉진하는 항노화 물질로서 디자인된 합성소체이다. 합성된 펩타이드 유도체는 HPLC를 이용하여 분석하였다. *In vitro* test를 통하여 콜라겐합성과 섬유아세포 증식 효능을 확인하였고, 비침습적 기기를 사용하여 피검자에 대한 8주간의 적용결과 피부주름과 탄력의 상당한 개선을 확인하였다. Palmitoyl tripeptide는 우수한 항노화 효능을 갖는 화장품 소재로 사료된다.

Abstract: Collagen is the most abundant animal protein in mammals, accounting for about 30% of all proteins. It is present in connective tissue and contributes to the structural framework of most organs. The tripeptide (glycine-proline-hydroxyproline) with the INCI name *Tripeptide-29* is main component of collagen type I. The palmitoyl tripeptide (palmitoyl-glycine-proline-hydroxyproline) with the INCI name *Palmitoyl Tripeptide-29* is a synthetic material that was designed as a topical agent to stimulate collagen production. We synthesized the palmitoyl tripeptide as a potential anti-wrinkle compound. This compound has been characterized using HPLC. This compound proved, through *in vitro* tests, to stimulate collagen production and fibroblast proliferation. These results were very promising, so human studies were subsequently performed. We investigated the skin improvement effect of the palmitoyl tripeptide on human skin by using non-invasive instruments. We measured physiological effects such as skin wrinkles and elasticity after volunteers applied the cosmetic products for 8 weeks. We observed significant improvement in skin wrinkles and elasticity after use of the cosmetic products for 8 weeks. We concluded that the palmitoyl tripeptide had an anti-aging effect on human facial skin.

Keywords: palmitoyl tripeptide, skin wrinkles, skin elasticity, skin density, skin thickness

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COMPONENTS

CENTELLA ASIATICA

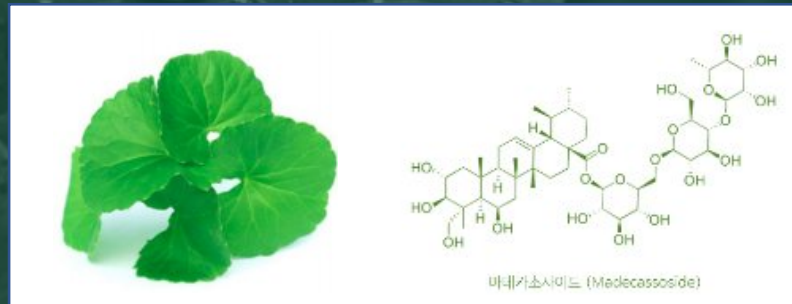
The vesicle extract is a perennial herbaceous plant belonging to the subfamily of flower plants and is generally known as Centella, Asian pennyworth, Indian pennyworth, or Gotukola, and is native to Asian wetlands. Madecassoside is a key ingredient extracted from Centella Asiatica, which has excellent effects on skin improvement.

1

Damaged skin care: It contains triterpene, which promotes collagen synthesis in the skin. It is effective in protecting the skin and elasticity of the skin, helping to care and manage damaged skin.

2

Skin soothing: It improves sensitive skin, black skin, acne, aging caused by skin elasticity degradation, and dry and sensitive skin.



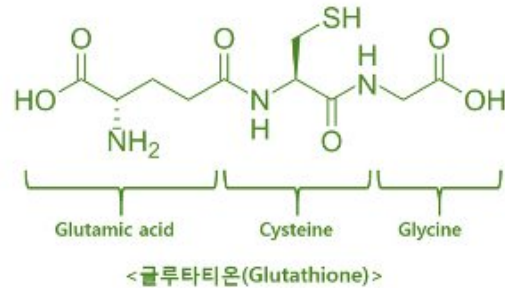
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COMPONENTS

GLUTATHIONE

It helps inhibit melanin synthesis degradation of melanocytes, which is an important factor in whitening, and the activity of tyrosinase, which is the most important early enzyme in melanin biosynthesis pathways in the human body.



Clinical, Cosmetic and Investigational Dermatology

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ORIGINAL RESEARCH

Glutathione and its antiaging and antimelanogenic effects

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Background: Previous studies showed that supplementation of reduced form of glutathione (GSH, 500 mg/d) has a skin-lightening efficacy in humans. This study was designed to evaluate the influences of both GSH and oxidized form (GSSG), at doses lower than 500 mg/d, on improving skin properties.

Patients and methods: A randomized, double-blind, placebo-controlled, parallel, three-arm study was conducted. Healthy female subjects were equally randomized into three groups and took GSH (250 mg/d), GSSG (250 mg/d), or placebo orally for 12 weeks. At each visit at baseline and for 12 weeks, skin features including melanin index, wrinkles, and other relevant biophysical properties were measured. Blood samples were collected for safety monitoring.

Results: In general, all estimating outcomes analysis, melanin index and ultraviolet spots of all sites including face and arm when given GSH and GSSG tended to be lower than placebo. At some sites evaluated, subjects who received GSH showed a significant reduction in wrinkles compared with those taking placebo. A tendency toward increased skin elasticity was observed in GSH and GSSG compared with placebo. There were no serious adverse effects throughout

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SODIUM HYALURONATE

Sodium hyaluronate, a natural moisturizing factor, is a salt of hyaluronic acid, which has a much smaller molecular size and provides three effects of hyaluronic acid (space filling, structural support, cell protection, and skin penetration capability).

Q. What is the difference between sodium hyaluronic acid and hyaluronic acid?

Sodium hyaluronate is in the form of **sodium salt of hyaluronic acid**, which is **water-soluble** and **can penetrate deep into the skin**. Because it is synthesized to **have a smaller molecular structure**, it is more stable and less susceptible to oxidation damage, so the product **can be used longer**.

MECHANISM Of Action

Maintaining moisturization

Clear and transparent skin

Maintaining skin elasticity

Prevent wrinkles and Anti-aging

Maintaining the structure of skin

Soft skin

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COMPONENTS

SODIUM DNA(PDRN)

It is an ingredient extracted from salmon most similar to human base composition and has **the effect of tissue regeneration and inflammation reduction.**

Promote the synthesis of collagen and elastin **to increase skin dermis density and thickness.**

Skin protection layer regeneration.

It is rich in vitamin E and astaxanthin **to improve skin tone and minimize changes in skin pigmentation.**

It's an ingredient that exists in a living body and has **no side effects** on the human body.

**Brighten
the skin**

**Anti-
inflammatory**

**Improving
the density
of dermis**

**Regenerating
skin tissue**

**Pore
tightening**

**Wound
healing**

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INDICATIONS

Improving fine wrinkles

Improving dark circle

Improving crowfeet

Brighten skin tone

Smooth skin



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KEY BENEFITS

LEMON BOTTLE SKIN BOOSTER solution
maximizes skin elasticity and whitening effects
with the best combination of 30 proven safe ingredients.

◆
Optimized skin
regeneration
function and cell
growth function

◆
Strengthen skin
elasticity in the dermis
and epidermis
&
Delivers ingredients
that help improve
skin tone

◆
Induce collagen
production
in fibroblasts in
the dermis layer

◆
Moisturize the
skin effectively
and maintain
elasticity

◆
Lifting effect

◆
Inhibiting melanin
production by inducing
tyrosinase inhibition of
melanocyte present at the
boundary between the
epidermis and dermis

◆
Improving fine
wrinkles

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BEFORE & AFTER



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BEFORE & AFTER



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