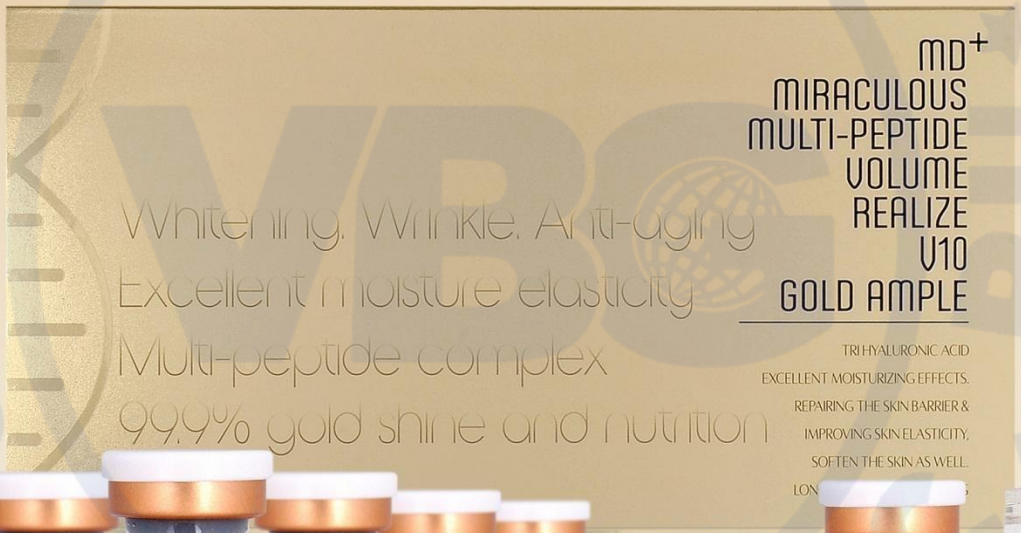


MD MIRACULOUS MULTI-PEPTIDE VOLUME REALIZE GOLD AMPLE™

엠디 미라클라스 멀티 펩타이드 볼륨 리얼라이즈 골드 앰플



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■ Product Overview**Product Name: MD MIRACULOUS MULTI PEPTIDE VOLUME REALIZE GOLD AMPLI**

- Light, gel-type cream that does not use oil that delivers high concentration of moisture deep into the skin without skin irritation, and having a refreshing feel.
- Contains gold, western rose water, allantoin, beta-glucan, and peptide compounds give moisture and nutrition to the skin to make it moist and energetic.
- Contains triple hyaluronic acid, portulaca extracts and green tea extracts for smooth and moist skin care.
- Paraben Free
- Dual functions of wrinkle care and whitening.
- Gold (gold dust) : 15mg in 100g.

■ Product Description

Section	Contents
Product Features	<p>The triple hyaluronic acid ingredients of super hyaluronic acid, ultra-fine hyaluronic acid, and hyaluronic acid repairs the skin barrier with high affinity and absorption and supplies powerful moisture deep into the skin for excellent elasticity. In addition the four main active ingredients of the centella asiatica's madecassoside, asiaticoside, and madecassic acid prevents drying of the skin / soothes skin irritation / relaxes the skin / improves elasticity and pores / prevents oiliness of skin due to sebum / helps improve skin restoration power. In particular, The multi-peptide complex comprised of peptides with excellent effects for whitening, wrinkle care and anti-aging such as core hexapeptide-9, tripeptide-29, acetyl hexapeptide-8, nicotinoyl dipeptide-22, icotinoyl dipeptide-24, lactobacillus fermented filtrate, and lactobacillus/collagen fermented filtrate, and the whitening wrinkle-care functional ingredients niacinamide and adenosine adds whitening and anti-aging effects, together with portulaca extracts that is excellent for skin antioxidantizing, bamboo extracts, beta-glucan, glutathione, collagen, panthenol, western rose water, allantoin, and 99.9% gold gives moisture, shine and nutrition to the skin. Furthermore, it offers non-irritating care for smooth, moist and energetic skin.</p>
Effects	Dual functions of wrinkle care and whitening.
Volume	5ml x 10vial = 50ml
Main Ingredients	Niacinamide, Hydrolyzed Collagen, Sodium Hyaluronate, Sodium Acetylated Hyaluronate, Hydrolyzed Hyaluronic Acid, Asiaticoside, Asiatic Acid, Madecassic Acid, Hexapeptide-9, Tripeptide-29, Acetyl Hexapeptide-8, Nicotinoyl Dipeptide-22, Nicotinoyl Dipeptide-24

■ Product Description

Section	Contents
All Ingredients	Water, Butylene Glycol, Glycerin, Niacinamide, 1,2-Hexanediol, Erythritol, Portulaca Oleracea Extr act, Camellia Sinensis Leaf Extract, Bambusa Vulgaris Extract, PEG-60 Hydrogenated Castor Oil, Polyglyceryl-3 PCA, Allantoin, Panthenol, Triethanolamine, Carbomer, Polysorbate 80, Beta- Gluc an, Hydrolyzed Collagen, Hydroxyethylcellulose, Tocopheryl Acetate, Sodium Hyaluronate, Sodium Acetylated, Hyaluronate, Hydrolyzed Hyaluronic Acid, Ethylhexylglycerin, Asiaticoside, Asiatic A cid, Madecassic Acid ,Adenosine, Hexapeptide-9, Tripeptide-29, Acetyl Hexapeptide-8, Bifida Fermentlysate, Polyglutamic Acid, Carnosine, Glutathione, Nicotinoyl Dipeptide-22 ,Nicotinoyl Dipeptide-24, Lactobacillus Ferment Lysate Filtrate, Lactobacillus/Collagen Ferment Filtrate, Phenoxyethanol, Disodium EDTA, Fragrance, Gold(15mg in 100g.)
Precautions	<ol style="list-style-type: none">1. In the case of the following when using cosmetic products, stop use. Continued use may worsen symptoms so consult a dermatologist.<ol style="list-style-type: none">A. Red dot, itch, irritation or other irregularities during use.B. When the above occurs due to direct sunlight2. Do not use in areas with wounds, rashes or skin inflammation3. Storage and handling precautions<ol style="list-style-type: none">A. Always close lid after useB. Store away from the reach of infants and childrenC. Do not store in high or low temperatures, and store away from direct sunlightD. Do not apply excessive strength when opening or closing cap as there is risk of damage.

■ ProductDescription

Section	Contents
Instructions	Take moderate amount and apply on entire face, and gently finish by applying along the skin contours.
PL law application	Read the instructions and precautions before use.
Usage time after opening	For best effects, use this product within six months of opening the product. Store between 10 and 30°C, and avoid direct sunlight.
Consumer damage compensation regulation	In the event that there are defects with the product, compensation shall be given according to the consumer dispute resolution standards announced by the Fair Trade Commission. Consumer help center: 1544-1623

■ **Main Ingredients**

1. Gold

Effects of gold according to oriental herbal medicine (Donguibogam)

Plinius, a Roman naturalist of the 1st century A.D. recorded that gold has the power to fix skin ulcers and in the Middle Ages, alchemists and doctors added gold powder in liquid medicines for use as anti-aging. In addition, it was recommended to drink liquor in golden cups for longevity, and people at the time believed that drinking powdered gold with liquor had the power to fix hand and feet pains caused by arthritis. According to the Donguibogam, gold has properties to remove toxins in the skin, and states that consuming even small amounts can help cure bowel diseases. It also states that pure gold(24k) has detoxification and anti-aging effects. In particular, it is said to be very effective for women who have a lot of skin trouble, rough skin and for women who have trouble putting on makeup.

- 1) In modern medicine, the use of gold began in the 1890s.
- 2) A pioneering historian and bacteriologist of Germany, Robert Koch discovered that compounds containing gold can suppress proliferation of bacillus, which causes tuberculosis, through gold cyanide and gold chloride.
- 3) Later researchers found that by injecting other gold compounds, it was effective for patients with asthma, etc.



- 4) Treatment methods for rheumatism arthritis, which were written by internal medicine doctors of Europe in 1927, included the injection of gold compounds into the body, and it claimed that it can reduce pains no matter how severe the pain is.
- 5) Radioactive inhalant particles were placed in malignant tumors in x-ray treatment for cancer to kill cancer cells.
- 6) In ophthalmology, fine gold particles are used to fix diseases related to eye muscles.
- 7) Gilt has nerve stabilizing effects.
It can relax and stabilize the mind when a person becomes anxious, the heart beats fast, becomes surprised, has hysteria, or become insensible.
- 8) Gilt has detoxification effects.
It can absorb various harmful substances in the body and secrete it outside.
- 9) Gilt has skin purification effects.
It is effective for skin diseases such as wens, infectious boils, smallpox, inflammation caused by burns, and nephropoyosis.



Ingredients	Effects
<p style="text-align: center;">Au (Puregold 999%)</p>	<ul style="list-style-type: none"> - Promote blood circulation through ion fluence : good for anti-aging of skin and removal of freckles - Skin activation by promoting hormone secretion : wrinkle care and removal of freckles - Curing of wounds through detoxification : prevent various skin inflammations and treatment of pimples



■ **Main Ingredients**

2 Tri-Hyaluronic Acid

Hydrolyzed Hyaluronic Acid penetrates into the skin for absorption. **Sodium Hyaluronate** creates a barrier on the skin surface to reduce evaporation of moisture and **Sodium Acetylated Hyaluronate** has acetyl with hydrophobic features to act as an anchor to attach to the skin. This helps with skin adhesion and also increases moisture synergy with hyaluronic acid.

① **Skin moisturizing**

Just 1g of hyaluronic acid can pull in 1,000ml of moisture, so it helps the skin experience outstanding moisturizing power.

② **Skin regeneration effects**

Hyaluronic acid has high viscosity so it is effective for activating skin cells.

Through this, it can help with skin regeneration and thus soothe wounds and burns quickly.

③ **Skin protection and antibacterial effects**

Hyaluronic acid makes the skin strong and protects the skin from outside stimulation. It also has anti-inflammation and anti-bacterial effects to help improve skin diseases. It also prevents bacteria penetration as well as inflammations, and can thus minimize skin trouble.

No.1. What is Hydrolyzed Hyaluronic Acid?

This is a natural moisturizing substance that conditions the skin and helps create energetic skin, and it enhances moisturizing power within the skin to help users have moist skin.

No2 What is Sodium Hyaluronate?

Of the natural moisturizing substances with over 6,000 times moisture content, sodium hyaluronate is often called 'hyaluronic acid'. When contained in cosmetic products, it pulls in surrounding moisture to prevent evaporation, and it also forms a thin layer to reduce skin irritation. With aging, the amount of hyaluronic acid reduces and the ability to produce hyaluronic acid also drops, causing the skin to age.

That is why cosmetic products with sodium hyaluronate are receiving more attention these days.

Sodium hyaluronate ~~works so fast and has skin trouble prevention effects~~, and it also helps with the skin's immunity effects and healing, making it an excellent natural moisturizer in many aspects.

No3 What is Sodium Acetylated Hyaluronate?

Sodium acetylated hyaluronate (AcHA) is a special HA derivative that acetylate s hyaluronic acid (HA). The hydroxyl of HA is partially substituted with acetate to have both hydrophilic and hydrophobic properties.

Due to such features, it has high affinity with the skin and is absorbed well.

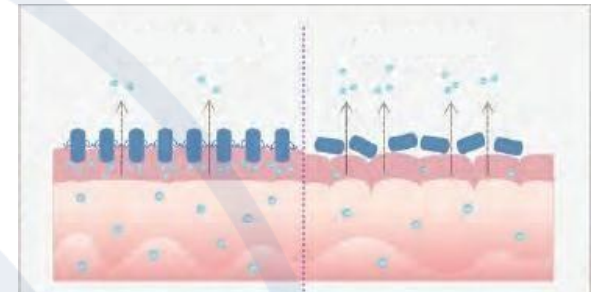
AcHA is ~~fast and sticky and has excellent moisturizing effects in addition to repairing skin barrier and improving skin elasticity~~
not on the skin as well.

It can be used in a broad range of repair, moisturizing and anti-aging cosmetics such as essence, masks, and creams.



① **High affinity and absorption**

Acetyl with very high hydrophilic properties help AcHA attach to the skin surface firmly. AcHA has small molecular weight, thus being able to penetrate to the keratin layer quickly. Therefore, AcHA can stay in the epidermis for a long with a half-penetrated structure to prevent moisture evaporation. Furthermore, it helps moisture accumulate within the skin and penetrates into the skin by combining with water to make the keratin layer smooth.



When applying Ac HA on the skin

When applying H A on the skin

② **Excellent moisturizing effect**

Bonding power within the keratin layer

First, after applying the aCHA/HA aqueous solution on the skin, when measuring the dry loss rate to check the amount of bonding with water in the keratin layer, AcHA remained at a quantity of about double of that of HA.

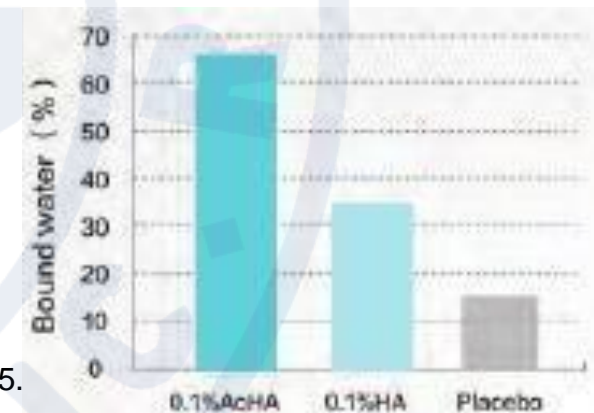
∴ When compared with HA, AcHA had much higher water bonding power, making keratin hydration possible

Increases skin moisture content

After two hours, the skin hydration effect of AcHA increased by 103.4%, while HA increased by 65%. AcHA gives moisture to the skin and lasts for 12 hours.

∴ AcHA bonds quickly with water and supplies moisture to the skin,

while maintaining moisture in the skin throughout the day



③ **Skin barrier repair**

Promotion of epidermal proliferation

AcHA promotes cell proliferation and cures damaged epidermis cells to strengthen the barrier functions of keratin.



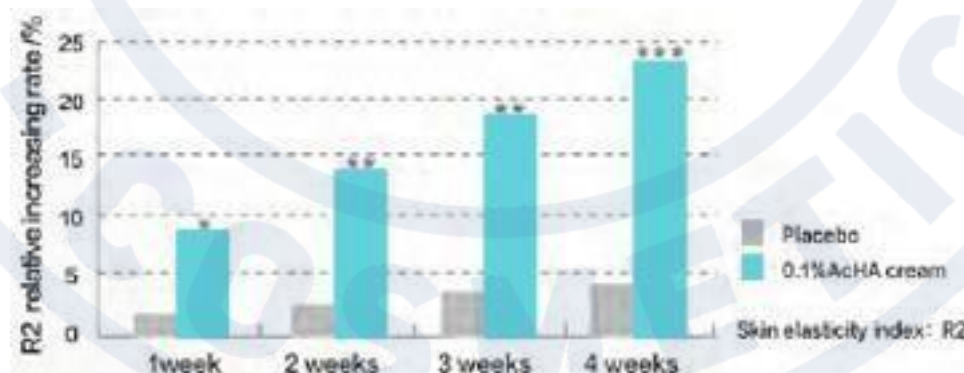
Cells: Human keratinocytes (HaCaT)

Decreased moisture evaporation

AcHA repairs the skin barrier functions and effectively reduces water from evaporating within the skin to improve roughened skin and skin dryness.

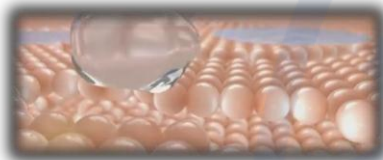
④ **Improves skin elasticity**

By applying facial cream with 0.1% AcHA continuously for four weeks, skin elasticity increased by 1.6 times and the skin became softer.

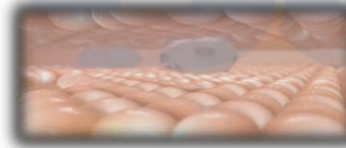




Sodium Hyaluronate
(M . W 1 5 0 만 D a)

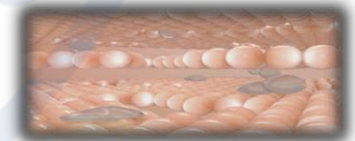


Sodium Acetylated Hyaluronate
(M . W 5 0 만 D a)



The molecular weight of Sodium Acetylated Hyaluronate is approximately 500,000 Dalton. One difference with hyaluronic acid is that acetyl with hydrophobic properties act as an anchor on the skin surface making it possible to be completely applied on the skin. Therefore, when compared to regular hyaluronic acids, AcHA that has both hydrophobic and hydrophilic properties can enhance softening and moisturizing effects.

Hydrolyzed Hyaluronic Acid
(M . W 3,500 Da)



The molecular weight of Hydrolyzed Hyaluronic Acid is 3,000 to 10,000 Dalton. When compared to regular hyaluronic acid, it has better moisturizing effects and long-lasting effects by being applied not only on the skin, but also by penetrating deep into the keratin layer of the skin.

In addition, unlike hyaluronic acid that is applied on the surface of the skin, hydrolyzed hyaluronic acid does not wash off even after washing, but remains within the skin for long-lasting moisturizing.

■ **Main Ingredients**

3. Hydrolyzed Collagen

Purpose : Hair Conditioner, Fingertip Conditioner, Skin Conditioner

This gives vitality and conditioning to the skin, hair and fingertips. It can also prevent static electricity from occurring in the hair and also form a film to softly cover the skin. Furthermore, by supplying moisture to the skin, it helps maintain moist skin. In addition, hydrolyzed collagen is a scleroprotein included in tissues such as animal bones, cartilage, tendons, ligaments and skin, and the substance obtained through hydrolysis of this is collagen.

The Protective Effects of Long-Term Oral Administration of Marine Collagen Hydrolysate from Chum Salmon on Collagen Matrix Homeostasis in the Chronological Aged Skin of Sprague-Dawley Male Rats

Jiang Liang, Xinrong Pei, Zhaofeng Zhang, Nan Wang, Junbo Wang, and Yong Li

Abstract: To investigate the long-term effects of marine collagen hydrolysate (MCH) from Chum Salmon skin on the aberrant collagen matrix homeostasis in chronological aged skin, Sprague-Dawley male rats of 4-wk-old were orally administered with MCH at the diet concentrations of 2.25% and 4.5% for 24 mo. Histological and biochemical analysis revealed that **MCH had the potential to inhibit the collagen loss and collagen fragmentation in chronological aged skin.** Based on immunohistochemistry and western blot analysis, **collagen type I and III protein expression levels** in MCH-treated groups significantly increased as compared with the aged control group. Furthermore, quantitative real-time polymerase chain reaction and western blot analysis showed MCH was able to increase the expressions of procollagen type I and III mRNA (COL1A2 and COL3A1) through activating Smad signaling pathway with up-regulated TGF- β RII (T β RII) expression level. Meanwhile, MCH was shown to **inhibit the age-related increased collagen degradation** through attenuating MMP-1 expression and increasing tissue inhibitor of metalloproteinases-1 expression in a dose-dependent manner. Moreover, MCH could alleviate the oxidative stress in chronological aged skin, which was revealed from the data of superoxide dismutase activity and the thiobarbituric acid reactive substances level in skin homogenates. Therefore, MCH was demonstrated to have the protective effects on chronological skin aging due to the influence on collagen matrix homeostasis. And the antioxidative property of MCH might play an important role in the process.

Keywords: chronological aging, collagen hydrolysate, collagen matrix, skin, Sprague-Dawley rat

There are marine collagen has the effect of inhibiting skin aging.

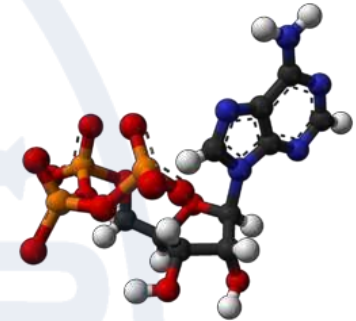
■ **Main Ingredients**

4. Adenosine

Adenosine, which is a key element for cell energy metabolism, is skin-friendly and penetrates deep into the skin to increase protein synthesis to accelerate the generation of collagen. By doing so, it not only offers wrinkle care, but also adds vitality to the skin.

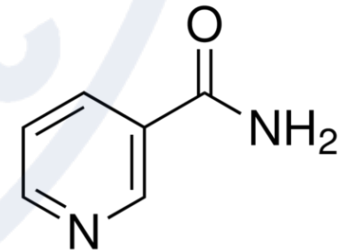
Adenosine is a signal substance like hormones and is the main substance of cell energy metabolism that promotes connection with cells and physiological functions.

Furthermore, it promotes DNA and protein synthesis in the epidermis to improve various aging symptoms such as wrinkles.



5. Niacinamide

In relation to the synthesis of vitamin B3, energizers, hormones and proteins, it improves blood circulation in the skin and helps with skin whitening. In addition, it also helps upgrade the moisturizing effect of panthenol. It has recently been known to be an ingredient for whitening functions.



■ **Main Ingredients**

6. Erythrid

Absorbs heat in the skin to offer a sense of cooling and helps contraction of pores while making the skin elastic.

It is used as a skin moisturizer that prevents drying and helps maintain moist skin for a long time.



7. Panthenol

Directly supplies lacking moisture and promotes moisturizing functions to help maintain skin moisture. In addition, it offers shine to the skin and prevents moisture evaporation.

It has excellent moisturizing abilities by pulling moisture from the skin.

8. BetaGlucan

This is a protective substance of seeds that make up the cell membranes of barley and oat seeds, and it helps maintain life.

In addition, it promotes sclerite absorption and strengthens immunity.

It is highly water-friendly and helps maintain moisture in the skin for a long period of time.



■ **Main Ingredients**

9. Alantoin

This is extracted from the embryo of grains or bark of chestnut trees. It helps with the disinfection of wounds and promotes cell proliferation.

In result, it helps the regeneration of healthy tissues and helps make strong epithelium. In addition, it sets off temporary increase of white blood cells to strengthen the flow of lymphs. In particular, it has strong wetting properties to make the skin flexible, moist and elastic.

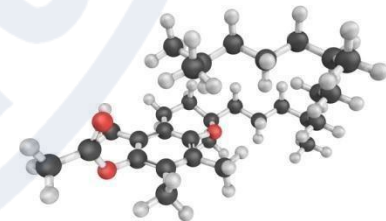


10. Tocopheryl Acetate

This is a vitamin E derivative generated from vitamin E acetate, tocopherol and acetic anhydride. It is obtained from plant-based oils and is used as an antioxidant of diet foods and essence oils. Cosmetically, it prevents rough skin and skin inflammation.

It helps with normal formation of red blood cells, muscles and other tissues, and it protects the heart and arteries, while delaying aging.

It also prevents roughening of the skin and suppresses skin inflammation, while having antioxidant effects. This material has more stability than tocopherol.



■ **Main Ingredients**

11. Bambusa Vulgaris Extract

Bamboos stay green even in the winter and while it is hollow, it grows straight up, and has thus been recognized as a plant that symbolizes fidelity and integrity.

In addition to the pine tree, it has been treated with value as one of the 'four gracious plants'.

The liquid is made by breaking bamboo, placing it in a jar and heating it up with red clay and rice husks. It is used to treat strokes and skin burns.

- The liquid made by condensating smoke generated by burning bamboo is called 'bamboo smoke liquid'. It is used for disinfection, sterilization and also for treating atopic dermatitis.
- From long ago, bamboo was used widely in oriental medicine as it was known to 'make the blood clear, prevent strokes and diabetes, and have excellent anti-cancer effects'. Donguibogam states, 'It controls strokes and diabetes and lowers fevers'.



12. Green Tea Extract

Drinking green tea prevents arteriosclerosis, expands blood vessels to promote blood circulation, while also promoting diuresis, and has astringent functions to help with digestion. When applied on the skin, it can prevent skin burns caused by UV rays,

and lowers skin trouble by getting rid of resident microbes on the skin.

It also has excellent antioxidizing effects making it great for preventing fine wrinkles on the skin.



■ **Main Ingredients**

13 Portulaca Extract

This is the extract of plants also called purslane or portulaca and contains sugars, organic acids, vitamins, amino acids, and crude proteins giving it excellent antibacterial effects. It is effective for rashes, disinfection, curing wounds, hemostasis, block UV rays, and lower skin heat. Portulaca is also called purslane and it is called 'Ohaengcho' in Korea because of its green leaves, red stem, yellow flower, white root, and black seed.

It is easy to apply for pimple care products, as well as blemish or sensitive skin products. It has excellent antibacterial, anti-inflammation, anti-allergy and skin moisturizing effects.

*** Anti-Irritation Effect**

- ① No irritation on the skin.
- ② Excellent effect on various skin disease treatment (wren, edema, boils, erysipelas, scabies, rashes, etc.).
- ③ Used for detoxification (insect toxins, snake toxins, etc), and soothes irritation.
- ④ No side effects even when using high quantities.
- ⑤ It was widely used as folk remedies and it is often consumed and has no toxins.

*** Moisturizing Effect**

- ① Contains high amounts of natural moisturizing factors (NMF) and moisture.
- ② Natural plant-based moisturizer.
- ③ Contains amino acids and various functional ingredients (Vitamin B1, C, Carotene, Nicotin acid, Tocopherol, traces of minerals, etc.).



■ **Main Ingredients**

14 Centella Asiatica

This ingredient is extracted from the rhizome of centella asiatica

It is native to Madagascar and has been used from long ago as folk remedies for health, cosmetics and care.

This herbal plant is also called **tiger herb** or **tiger grass** as it was said that tigers would rub its body on it to treat wounds. It is also one of the main ingredients of Madecassol.

The fore active ingredients of Centella Asiatica are Madecassoside, Asiatic Acid, Asiaticoside, and Madecassic Acid.

- ① **Prevents skin damage/ Prevents drying of skin/ Soothes skin irritation/ Reverses skin/ Helps with elasticity and pore improvement**
- ② **Helps prevent oiliness of skin due to sebum**
Helps keep skin elastic and smooth.
- ③ **Suitable for use for dry, oily and sensitive skin.**



No1. Asiaticoside

Adds autogenic power to the skin to make it healthy and elastic, and supplies nutrition to help improve damaged skin and scars, and it can be used for dry, oily and sensitive skins.



No2 Asiatic Acid

Helps improve scars on skin, make the skin smooth, and can be used for dry, oily and sensitive skins.

Helps strengthen skin barrier and relaxes sensitive skin, while helping the skin recover its original functions.

It also improves skin elasticity and has antioxidizing effects to make the skin elastic.



No3 Madecassic Acid

It is known to help skin regeneration such as for damaged skin, keratinocyte, and soothing, and unlike other vitamin elements, it has high stability even at room temperature for oxidizing prevention, and is widely used as cosmetic ingredients.



■ Main Ingredients

15 Lactobacillus

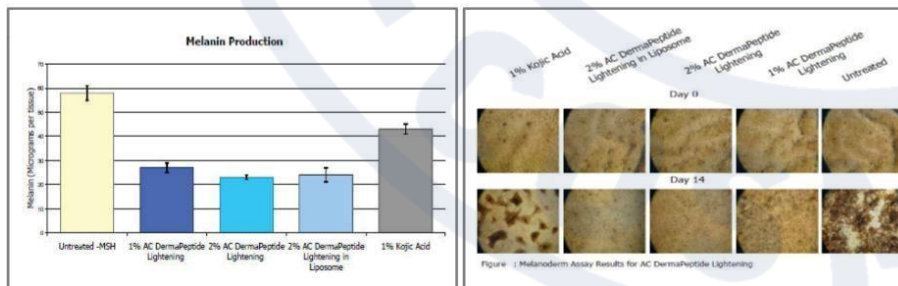
This ingredient is a microorganism that ferments sugars to obtain energy and generates high quantities of lactic acid. Formatively, it is polymorphic with gram positive asporogenic bacillus. The arrays include single frame, non-serial, single serial, etc. Most are not mobile and are characterized by growing in environments with little oxygen.

Lactobacillus Collagen Ferment Filate

Collagen fermented once again for tight skin, and helps create shiny, energetic and tight skin, while supplying nutrients. Various vitamins are added in the fermentation process of collagen, and it has good cosmetic effects. In addition, it regulates the activities of the T-lymphocyte that is in charge of the immunity functions of lactobacillus and immunity controllers in the body to reduce factors that cause skin trouble.

Lactobacillus Ferment Lysate Filate

It suppresses the generation of melanin and is effective for skin whitening. It was also revealed to help improve skin immunity and soothe skin inflammation, and it has also recently received a lot of attention as skin cosmetic microorganisms.



∴ Lactobacillus fermented filtrate increases melanin synthesis simultaneously to improve skin tone, while also reducing excessive moisture, while also reducing excessively.

■ **Main Ingredients**

16Wrinkle, Anti-aging complex

- INCI Name : Hexapeptide-9, Tripeptide-29, Carnosine, Glutathione, Acetyl Hexapeptide-8, Polyglutamic acid, Bifida Ferment Lysate, Lactobacillus/Collagen Ferment Filtrate
- This is a complex comprised of peptides with excellent effects for wrinkle care and anti-aging of the skin. Its effects are manifested through different mechanisms, so it is possible to fundamentally respond and improve, and it is judged to have powerful anti-aging effects.
- Apep AGEs (Carnosine, Glutathione) is effective for anti-aging by removing the oxidants in the body.
- Hexapeptide-9 is effective for skin regeneration and generates Tripeptide-29 collagen that is effective for wrinkle care
- Application : Anti-aging, anti-wrinkle

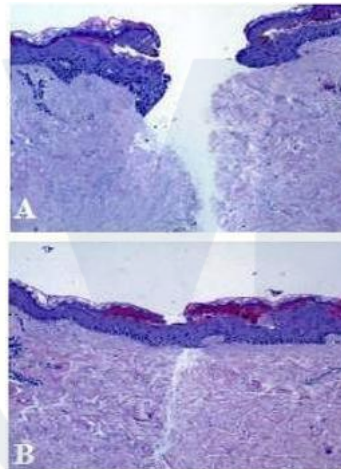
Component	Contents	Component	Contents
Hexapeptide-9	100ppm	Tripeptide-29	400ppm
Acetyl Hexapeptide-8	100ppm	Bifida Ferment Lysate	25%
Carnosine	400ppm	Polyglutamicacid	0.25%
Glutathione	1600ppm	Lactobacillus/Collagen Ferment Filtrate	10%

Hexapeptide9

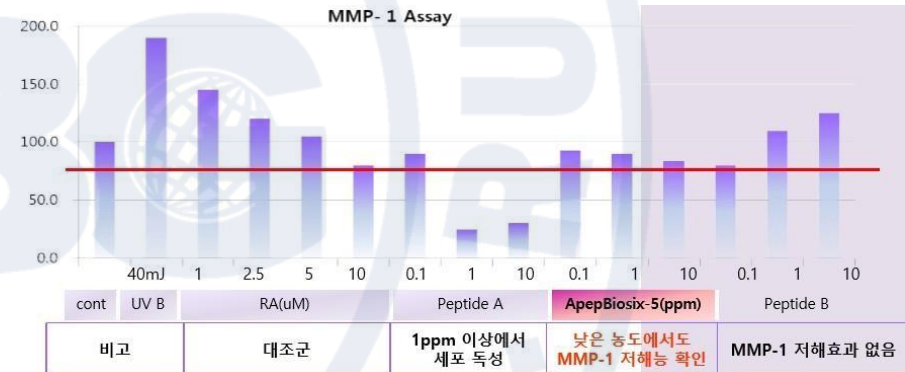
This is a peptide made up of six amino acids (NH₂-Gly-Pro-Gln-Gly-Pro-Gln-OH) and it is comprised of a highly pure tripeptide repeated structure combining three amino acids, which are important substances of collagen

Hexapeptide9 Effects Test

Ex vivo human skin, experimentally wounded
 peptide: 1%
 Sample culture: 72 hours
 Treatment: One single application
 A: Untreated skin
 B: Skin treated with Peptide



Hexapeptide9 Effects (MMP-1 inhibitory activity)



∴ Hexapeptide9 was found to be effective for skin regeneration in the epidermal shaving cases

∴ Hexapeptide9 was found to have MMP-1 inhibitory activity at low concentrations

Note.

MMP-1 (Matrix Metalloprotease-1) :

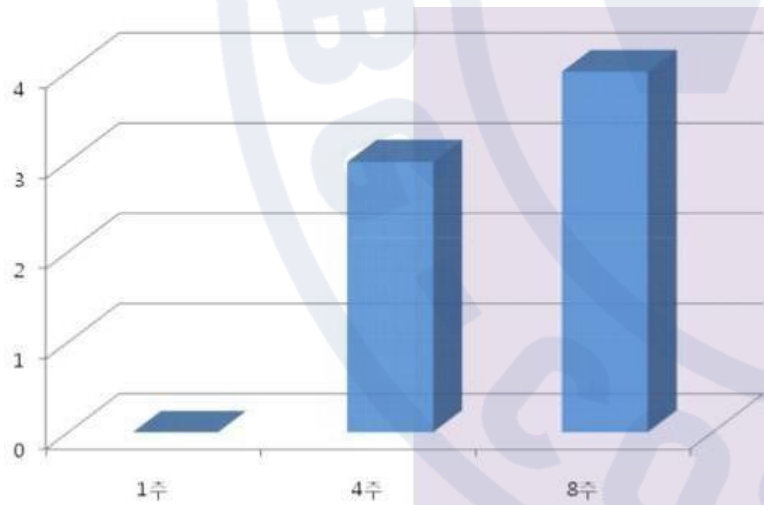
Representative enzyme that decomposes collagen in the cell. When MMP-1 activity is suppressed, collagen generation is promoted.

· **Hexapeptide-9 clinical trial**

- Participants : 15
- Age group : 20-30s
- Trial subject : Fine wrinkle care
- Trial period : 4-8 weeks (Repeated Inspections)
- Trial concentration: Hexapeptide-9 : 5%(0.05%)

∴ Pimples care effect
Average 53% improvement 8 weeks 15 subjects

* Gender: female, age: 25



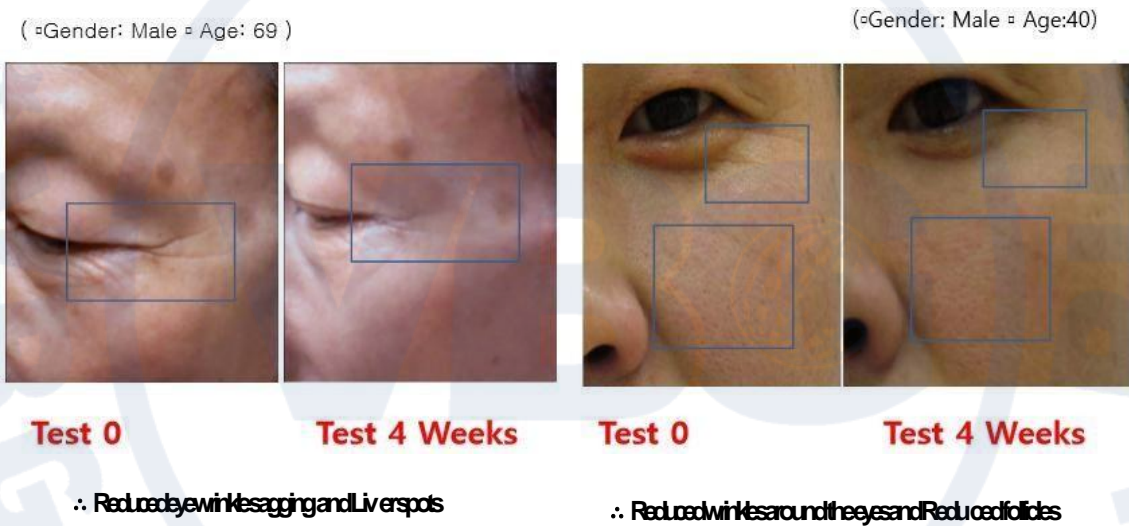
Test 0

Test 4 weeks

-Tripeptide29

This is a highly pure tripeptide combining three amino acids that are important elements of collagen, and due to its low molecular weight (285), it penetrates into the skin layer in high concentration for collagen generation effect, skin elasticity, wrinkle care and in preventing wrinkle formation.

· Tripeptide29 Clinical Trial



-Bifida Ferment Lysate

Bifidus bacteria is a lactic acid bacteria that is closely related to human health. This was discovered at the Pasteur laboratory in 1899 by Tissier while conducting research on why children that consumed breast milk are healthier.

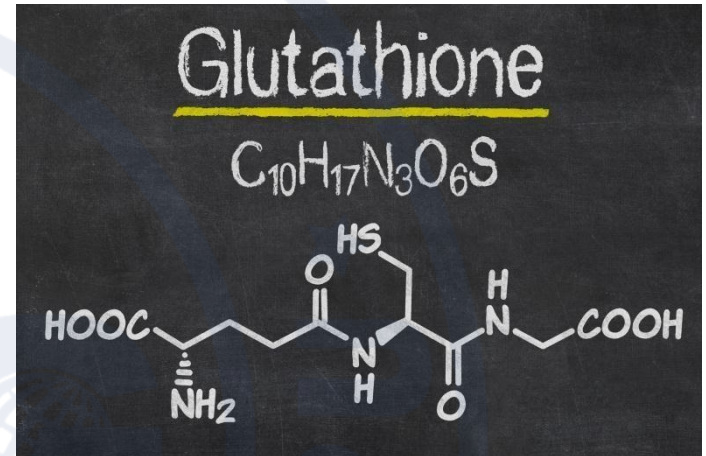
Proteins, lactose, lactic acid, vitamins and other minerals in bifida fermented filtrate helps skin gain vitality.

Glutathione

Glutathione (GSH) is a water soluble crystallized polypeptide found in living cells or enzymes, and it is widely distributed in the natural system.

It plays an important role in the oxidation-reduction reaction of almost all living things.

This purifies harmful energies in the skin into positive energy to add vitality to the skin, and it helps activate skin metabolism and circulation.

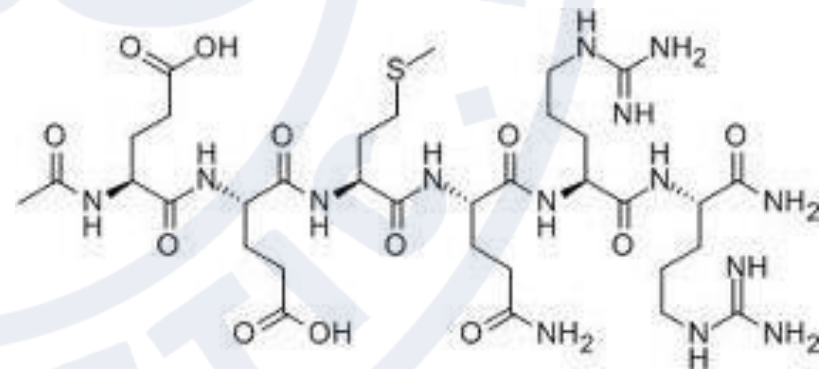


Acetyl Hexapeptide-8

Acetyl hexapeptide, which is a non-irritating, non-toxic substance generated naturally in the skin, is a low molecular weight peptide nicknamed Botox peptide. Its molecular size is small and

is quickly absorbed by the skin giving it high safety.

It is involved with temporarily controlling the intensity of facial muscular contraction and helps soothe signs of initial aging.



-Polyglutamic Acid

This is a naturally fermented moisturizing substance that generates natural moisturizers in the skin and strengthens skin moisture power.

It has excellent moisture absorption and once it penetrates into the skin, it attracts nearby moisture to make the skin moist.

-Carnosine

This is a compound of histidine and alanine, which are amino acids, and was initially used for patients with Alzheimer's disease.

When used on the skin, its functions are compound skin conditioning and antioxidantizing, and the risk index is 0, making it a very safe substance.



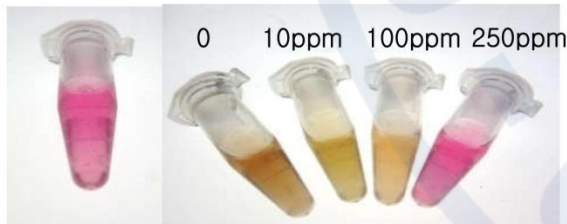


■ Main Ingredients

17.WW complex (Whitening)

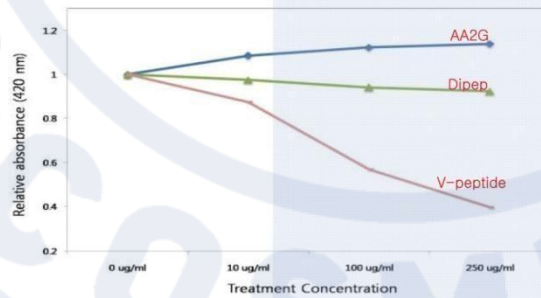
- INCI Name : NicotinoylDipeptide-22, NicotinoylDipeptide-24, Lactobacillus Ferment lysatefiltrate, Bifida Ferment lysate, Carnosine, Glutathione, Bifida Ferment Lysate

- Complex type comprised of various peptide combinations effective for whitening
- Lactobacillus ferment lysate filtrate suppresses the hormone α -MSH that is involved with melanin synthesis, and is effective for whitening.
- Nicotinoyl Dipeptide-22 and 24 suppress melanin generation and interrupts movement within melanin cells, thus giving it whitening functions
- Bifida ferment lysate improves the skin barrier, soothes irritations, and has whitening effects through skin turnover.
- Glutathione and Carnosine maintains skin health through antioxidizing effects by removing oxidants in the body and suppressing melanin settlement
- Polyglutamic acids have complete anti-aging effects through moisturizing effects.



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Treatment with V-peptide



Melanin generation reduction experiments

∴ NicotinoylDipeptide22 and NicotinoylDipeptide24 were proven to have whitening effects by suppressing the generation of melanin at low concentrations

The control groups Dipeptide and AA2G were found to have no melanin suppression functions.

*Note.

Melanin generation suppression experiment : Suppress the activation of enzymes that generate melanin