Lysonome


Lysonome
PDRN
Retain
Bio Cellulose Mask


Lysonome
HEXA
GLOW SERUM
HEXA
SPARKLING
POWDER CREAM
Lactobacillus Extracellular Vesicles
Hexylresorcinol
Glutathione
HEXA
INFUSE COMPLEX
Niacinamide
HEXA
ASTER CREAM

Lysonome PDRN



'PDRN, regenerate skin cells and anti-aging'

MESOPHARM

Contents

1. Lysonome Brand Telling
   - Meaning
   - Catch phrase
   - Slogan
   - Banner

2. Lysonome First Project _ PDRN Introduction
   - What is PDRN?
   - PDRN Effects

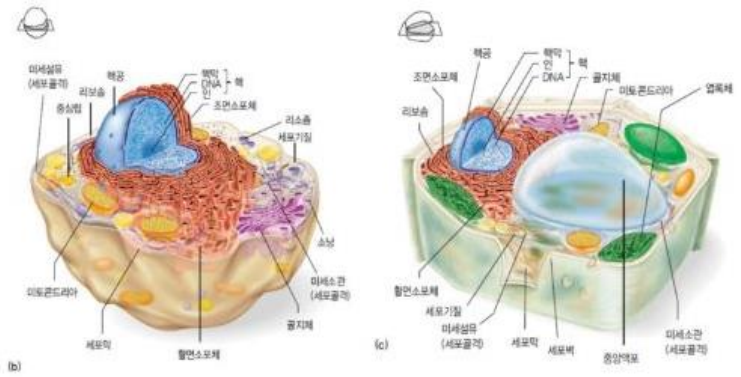
3. Lysonome PDRN Line _ 7 Major Product Lists

Lysonome

Meaning

Lysonome is a brand created by synthesizing "lysosomes,"
which play a particularly important role in cells that absorb nutrients through the intracellular intake process,
which are involved in maintaining intracellular homeostasis by self-digesting cells themselves when nutrients are lacking
or damaged organelles occur, and "genome," which refers to the blueprint of a living organism and
is a general term for genetic information that represents genetic traits.

Simply put, Lysonome is a new word that combines lysosomes,
which are cell activators and serve as cell recycling centers that change harmful cells into harmless cells,
and genomes, a collection of genes, are the neologisms.



Lysonome = Lysosome + Genome

Catch phrase

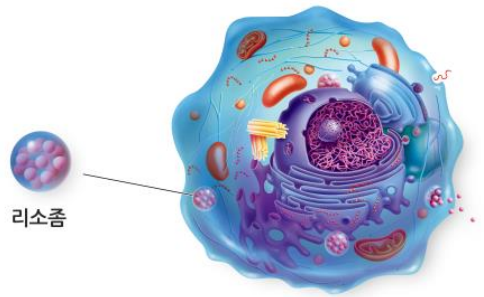
"Lysonome, a brand created to protect skin cell activators more accurately and reliably“

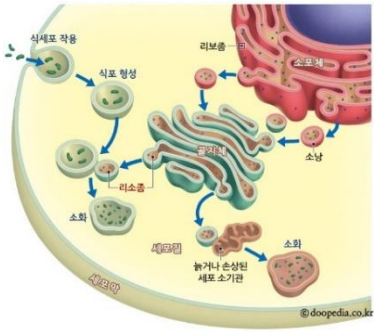
Banner

"Highly concentrated ingredient brand 'Lysonome' is inspired by skin types and is created to effectively help protect the skin, customized brand designed to enable select and concentrate Corning to condition."

Slogan

"Lysonome, fascinated by you."





Why should choose Lysonome

Because it is an export-specialized brand(International trademark)

Lysonome is a brand that has been officially registered, licensed, and certified as a brand trademark in about **20 countries**.

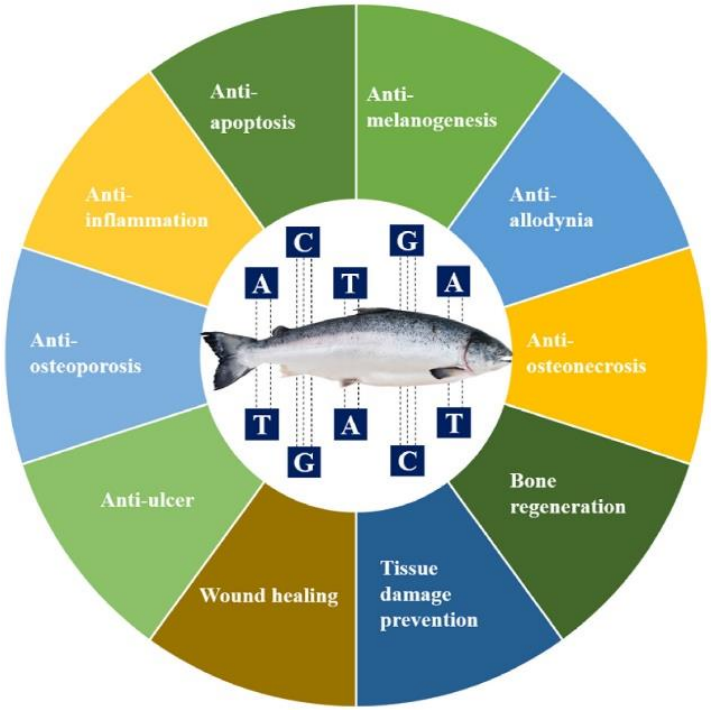
In order to protect buyers from various countries who have trusted Meso Pharm and purchase products for a long time, and to safely protect the characteristics and unique products of Lysonome, the **Madrid International Trademark Application** has applied.

WIPO | MADRID
The International Trademark System

특허청

Lysonome First Project _ PDRN

'PDRN'
Polydeoxyribonucleotide



Polymer mixture to extract semen or testis DNA from salmon (Oncorhynchus keta) and trout (Oncorhynchus mykiss)

Trout/Salmon Extract PDRN

The amount of semen (fish semen) that can be collected per trout is 10~15ml, testes 80~100g
Approximately 5,000 vials of product can be made from 1kg of trout semen and in terms of value, 1kg of semen has an added value of approximately 100 million won, and 4kg of testes is calculated to have an added value of 500 million won
Trout semen is collected in a very small amount, about 5-10ml per fish

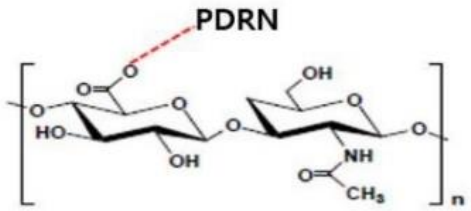
PDRN from trout/salmon has a double helix structure similar to human-derived DNA and is a low-molecular-weight DNA complex of 50 to 2000 bp, has a similar efficacy mechanism (stimulation of adenosine A2 receptor) to adenosine, which was previously used as a cosmetic raw material, but produces DNA as a DNA analogue, also helps promote the synthesis of damaged DNA, helping rapid cell regeneration more efficiently than adenosine in the form of nucleotides, and has no side effects

What is PDRN?

The introduction of PDRN in clinical practice is not new and its astonishing therapeutic effects include anti-inflammatory, anti-apoptotic, anti-osteoporotic, anti-melanogenetic, anti-allodynic, anti-osteonecrotic, bone regenerative, tissue damage preventive, anti-ulcerative, wound healing, and scar preventive effects.

Owing to its properties with regards to angiogenesis, cell activity promotion, collagen synthesis, anti-inflammation, hyperpigmentation treatment, soft tissue regeneration, and skin priming and revitalization and its anti-aging effect, PDRN has revealed its potential as a promising skin anti-aging agent .

Therefore, the aim of this study was to review the skin anti-aging properties of PDRN and its clinical use in the cosmetic industry.



What is PDRN?

Skin aging is an inevitable process driven by two overlapping factors, intrinsic and extrinsic, both of which decrease the structural integrity and physiological function of the skin.

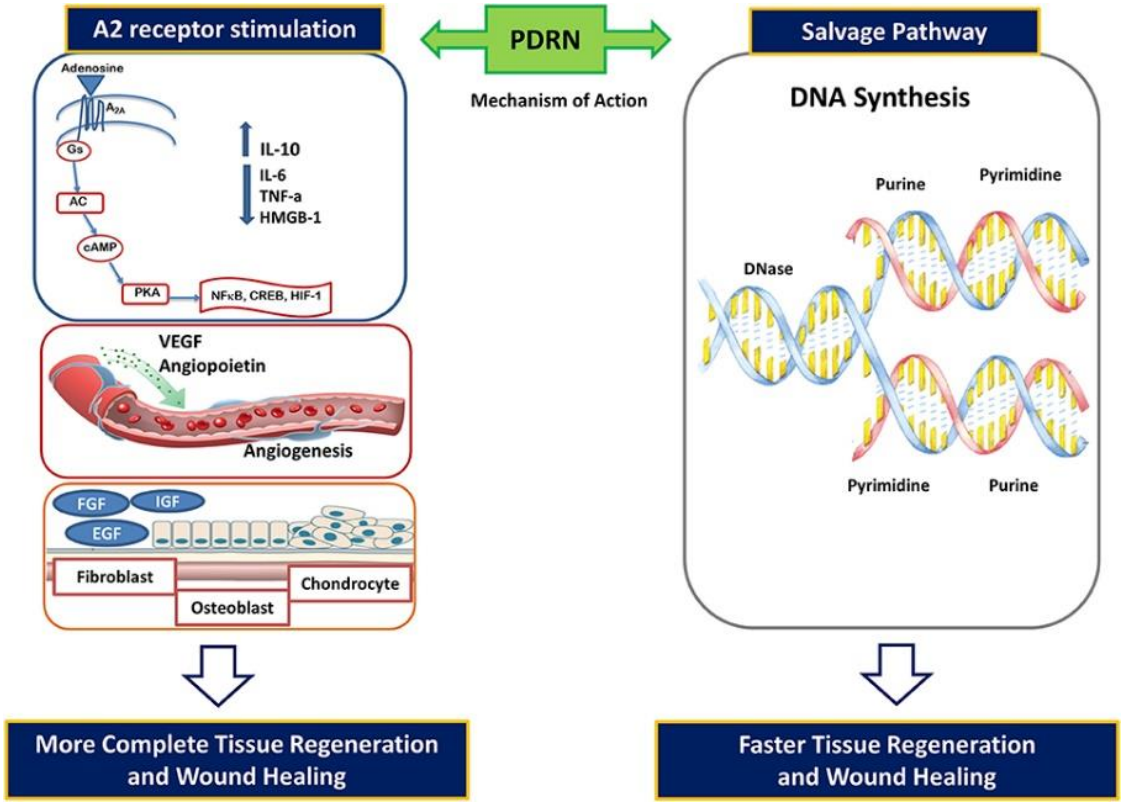
The human integument serves as a barrier; it separates the body from the outside world and is thus subjected to more insults than most organs. Fine lines, wrinkles, sagging, and dehydrated skin are the first visible signs of aging. Fighting against aging is one of the main challenges of this century.

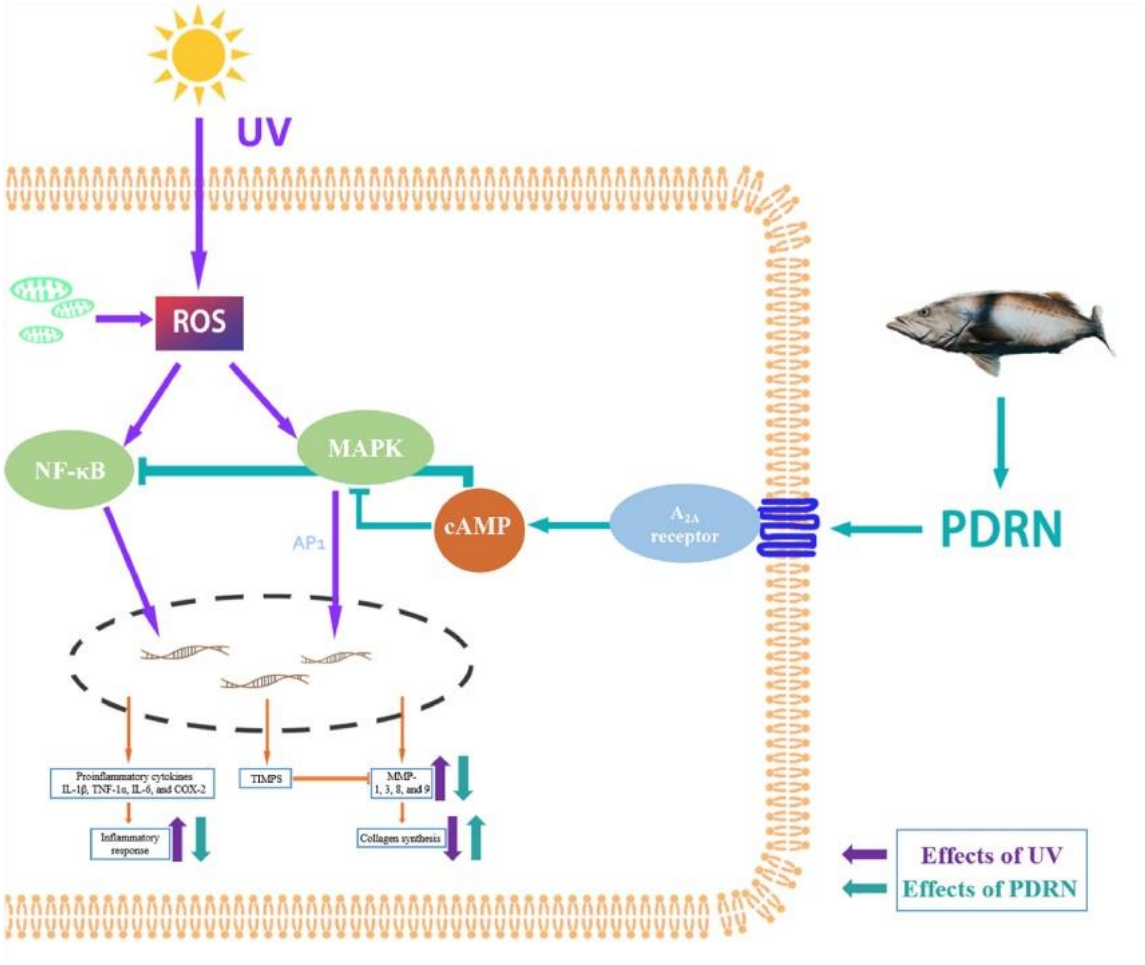
Traditionally, facial rejuvenation involves surgical resection of the sagging skin. In recent years, there has been a major paradigm shift towards the use of minimally invasive therapies. These include daily skincare, use of topical agents, chemical peelings, lasers, injectable rejuvenation, botulinum toxin, and soft tissue augmentation using dermal fillers. The mainspring of each therapy is to achieve healthier, younger-looking skin.

A recent report published by the American Society of Aesthetic Plastic Surgery (ASAPS) revealed that the use of dermal fillers is the second most common non-surgical procedure currently performed. Fillers can strive to make the appearance of facial wrinkles and sunken regions less noticeable through soft tissue augmentation, but they play little to no role in the actual anti-aging process.

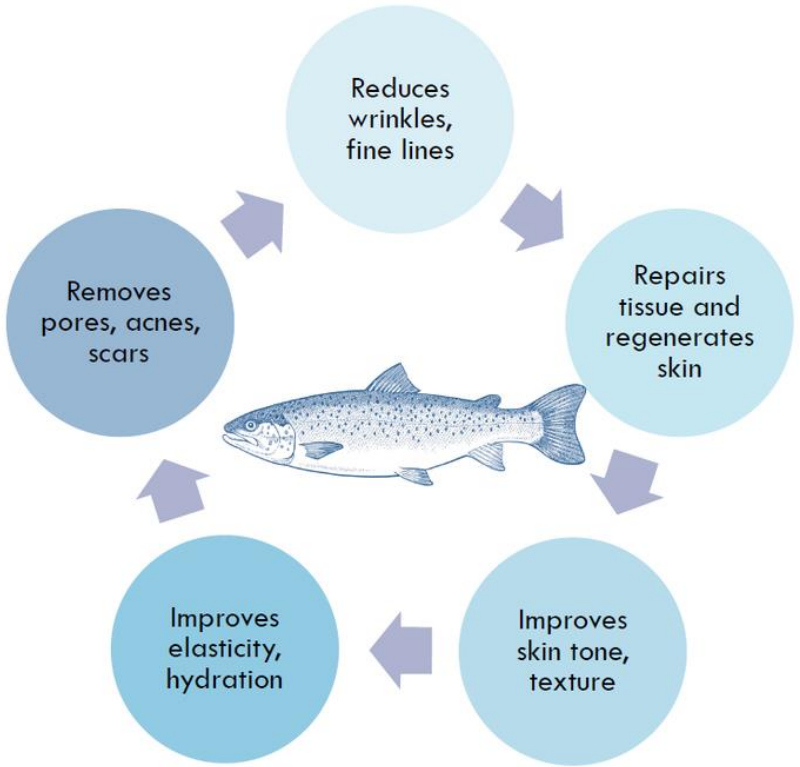
It has been reported that, while existing filler products simply fill the contracted or depressed spaces, polynucleotide-containing products not only fill the space but improve tissue regeneration in the damaged tissue environment, resulting in a more natural tissue regeneration.

What is PDRN?

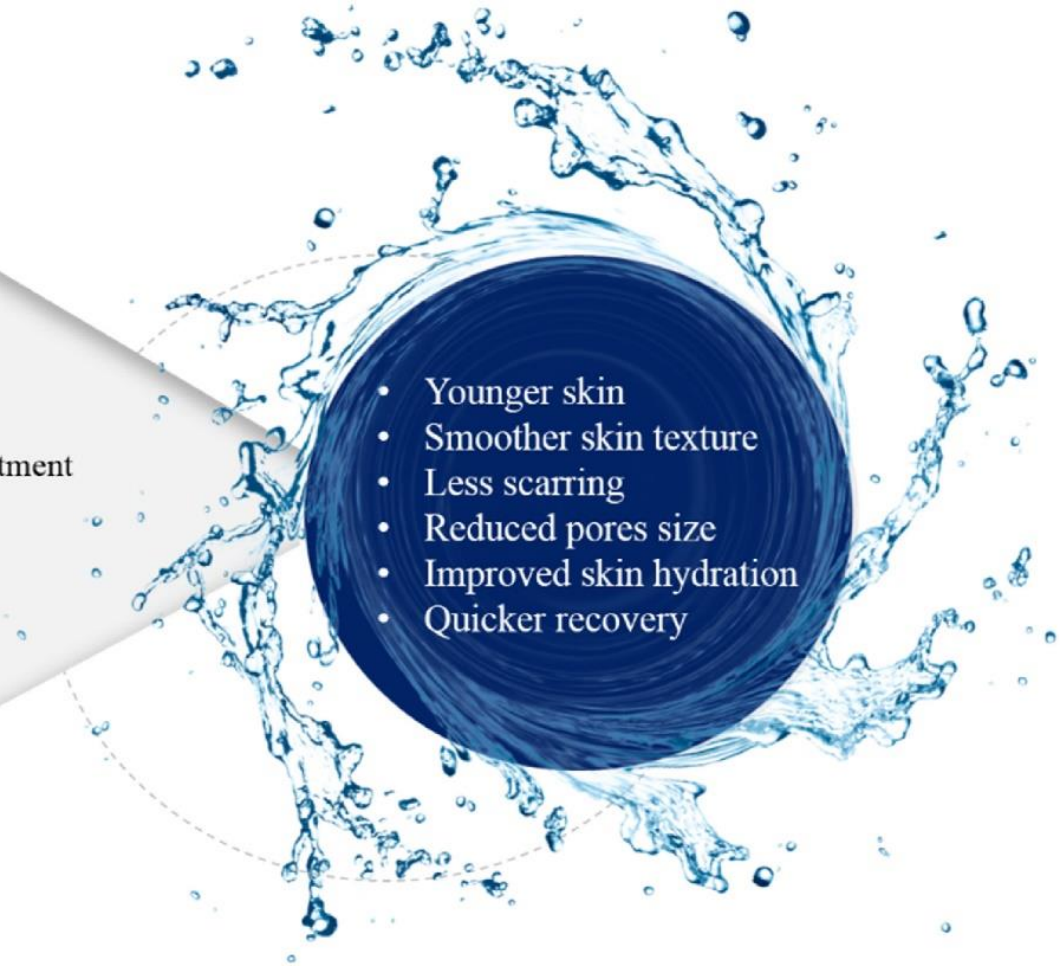

A2 receptor stimulation
PDRN
Mechanism of Action
Salvage Pathway
Adenosine
Gs
AC
cAMP
PKA
NFκB, CREB, HIF-1
IL-10
IL-6
TNF-a
HMGB-1
VEGF
Angiopoietin
Angiogenesis
FGF
IGF
EGF
Fibroblast
Chondrocyte
Osteoblast
DNA Synthesis
Purine
Pyrimidine
DNase
Pyrimidine
Purine
More Complete Tissue Regeneration and Wound Healing
Faster Tissue Regeneration and Wound Healing


UV
ROS
NF-κB
MAPK
AP1
cAMP
A2A receptor
PDRN
Proinflammatory cytokines IL-1β, TNF-1α, IL-6, and COX-2
Inflammatory response
TIMPS
MMP-1, 3, 8, and 9
Collagen synthesis
Effects of UV
Effects of PDRN

What is PDRN?



1. Angiogenesis
2. Promoting cell activity
3. Collagen synthesis
4. Hyperpigmentation treatment
5. Soft tissue regeneration
6. Skin priming
7. Skin revitalization
8. Anti-inflammation
9. Scar reduction
10. Anti-aging



Effects of PDRN

1. Improved skin texture

As aging progresses, collagen, the most abundant protein, undergoes organizational and structural changes, and undesired skin wrinkles become evident. Collagen is one of the most abundant proteins in the human body and provides structural scaffolding for cells, tissues, and organs.
It is a key player that determines skin physiology and provides strength and stability to tissues by creating support nets along the cellular structures.
There are many solutions available in the market to improve skin conditions, such as lasers, skin peelings, galvanic electricity, and oral supplements containing hydrolysate molecules. All of these procedures have a common goal, which is to enhance collagen production.
Treatment with PDRN does improve collagen synthesis. A recent study investigated the increase in fibroblast collagen and elastin synthesis via the inhibition of MMP-1; the decrease in MMP activity resulted in an increase in collagen synthesis.
MMPs play an important role in elastin degradation, and an increase in MMPs is associated with damage to ECM components. As mentioned above, PDRN inhibits the expression of MMP-1 and elastase.
These two factors play a key role in skin aging and wrinkling. Elastase is a protease responsible for the breakdown of elastic fibers. The overexpression of elastase results in a loss of skin elasticity. An increase in elastase activity with age was found in the skin of mice.
Therefore, elastase inhibition can slow down the process through which aging skin loses its elasticity. MMP-1 is also involved in the breakdown of the ECM, thus the inhibition of MMP-1 via PDRN can also favor the maintenance of skin elasticity.

Effects of PDRN

2. DNA synthesis

One of the key factors contributing to skin aging is the accumulation of DNA damage. Hence, DNA synthesis is essential for maintaining skin homeostasis.
UV light plays a significant role in DNA damage. A study showed that UV-induced DNA damage initiates the release of MMP-1.
Exposure to sunlight can trigger an increase in MMP-1 expression. As mentioned above, PDRN can inhibit MMP-1.
Furthermore, PDRN has the advantage of promoting angiogenesis and tissue regeneration. Blood vessels are the highways transporting oxygen and nutrients to the cells, but vascular growth requires VEGF. Polynucleotides stimulate VEGF production by activating the adenosine A_{2A} receptor to promote angiogenesis.
Damaged and/or hypoxic tissue often cannot undergo de novo DNA synthesis.
The nucleotides derived from PDRN provide purines and pyrimidine rings for the “salvage pathways.” Salvage pathways help recover bases and nucleosides generated from DNA and RNA degradation, convert them back to nucleotides, and finally reincorporate them into DNA. PDRN contributes to DNA formation by generating nucleotides and nucleosides; this reactivates normal cell proliferation and growth patterns, leading to a faster tissue regeneration and wound healing.

Effects of PDRN

3. Hair regeneration

Pattern hair loss (PHL) is defined as the non-scarring progressive thinning of hair characterized by a gradual decrease in the number of hairs, especially in the frontal, central, and parietal scalp, due to a process known as follicular miniaturization.

This common form of alopecia affects millions of people worldwide and can be cosmetically disrupting. Previous studies have stated that 1 927-nm fractionated thulium laser energy is a safe approach for PHL treatment. Two studies combined this treatment with PDRN to improve results. In the first study, patients were divided into two groups: one group received fractionated thulium laser and PDRN injection, while the other group received PDRN injection only. None of the patients were on topical or oral hair loss medication.

The results indicated that the combined therapy greatly improved the mean hair thickness and hair count compared to PDRN injection alone. The second study presented the case of a patient who showed improvements in hair thickness and hair count after a combined therapy of 1 927-nm fractionated thulium laser and PDRN injections.

These studies suggest the addition of PDRN injections improved the benefits of thulium laser therapy in the treatment of hair loss. Another study was conducted to investigate the effects of PDRN injection combined with platelet-rich plasma (PRP) therapy on hair regeneration. Patients were divided into two groups: one group received PRP and PDRN combined therapy, while the other group received PDRN therapy alone.

The results concluded that both groups exhibited improvements in mean hair thickness and hair count. The comparison analysis between the two groups suggested that the combined therapy improved hair thickness but not hair count as compared to PDRN therapy. Nevertheless, these findings suggest improved hair health following PDRN treatment.

Lysonome PDRN Line _ 7 Major Products

1



PDRN Peak Bubble Foam
Volume : 150m

Cleansing Bubble_1st Step

2



PDRN Advance Fluid
Volume : 2ml*10EA

Between Serum & Ampoule_2nd Step

3



PDRN Define Complex
Volume : Freeze-Drying 200mg*2EA,
Solution 20ml*2EA

Complex as Essence_3rd Step

Lysonome PDRN Line _ 7 Major Products

4



PDRN Cura Cream
Volume : 50ml

Cream at Night_4th Step

5



PDRN Abound Mist
Volume : 50ml

Mist carry everywhere_5th Step

6



PDRN Restore Green Pack
Volume : 100ml

Green Tomato Peel Off Mask
Anytime during the day_6th Step

Lysonome PDRN Line _ 7 Major Products

7



PDRN Retain Bio-Cellulose Mask
Volume : 30g * 5EA

Coconut Enzyme Sheet Mask
Before make-up or to rest_7th Step

PDRN **reduces fine lines and wrinkles**, promotes skin cell regeneration, and increases the production of collagen and elastin by activating skin microvessels and fibroblasts.
In particular, it helps alleviate signs of aging and strengthens the skin's ability to retain moisture, making it more hydrate and shiny.

Salmon is rich in protein and fatty acids that the skin needs.

These nutrients help regenerate and protect skin tissue, and are especially maintaining skin elasticity and healthy skin.

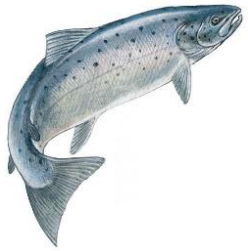
Lysonome PDRN Peak Bubble Foam



(150ml)

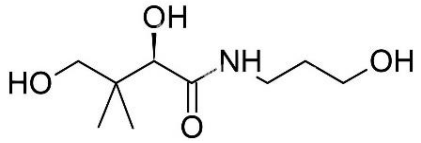
PDRN (sodium DNA), which helps improve wrinkles by making cells healthy through collagen synthesis in the dermal tissue, an ingredient that forms a skin protective film and is effective in improving wrinkles, and an ingredient that protects the skin from harmful oxygen that causes aging help increase skin elasticity even after washing.

Main Ingredients



Sodium DNA

Revitalize the skin
Activate cycle
Helps skin healthier
Skin conditioning
Prevent oxidative stress



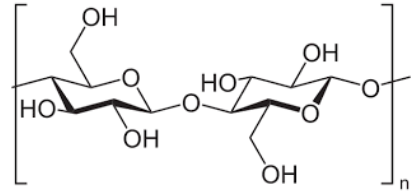
Panthenol

Excellent long-lasting moisturizing effect
Soothes sensitive skin
Repair skin damage
Improves skin elasticity



Betaine

Helps remove free radicals and prevent cell damage through antioxidant action
Anti-aging



Beta-Glucan

Plumps skin
Wound healings
Reduces the appearance of the fine lines and wrinkles

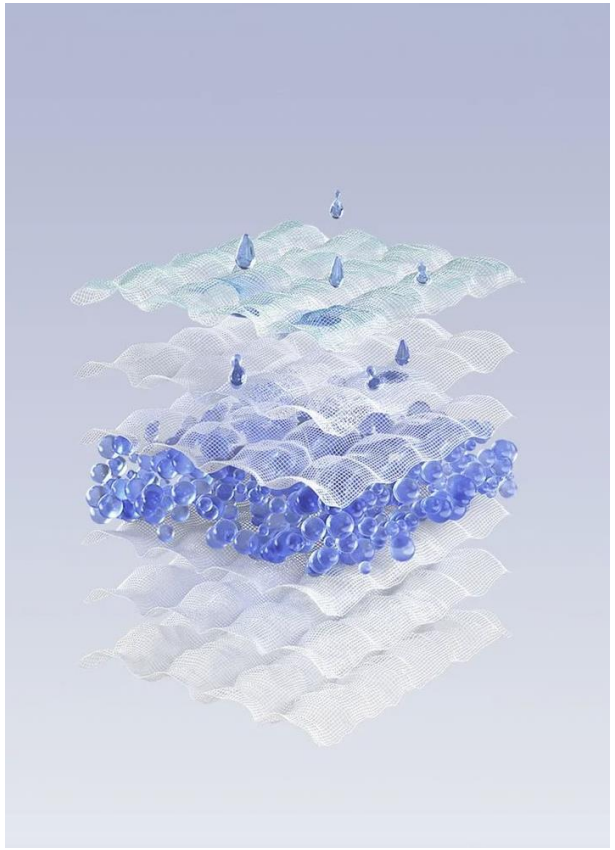
Ingredients

It contains Dipotassium Glycyrrhizate, which has anti-inflammatory effects and is useful in soothing irritated skin, which can be especially helpful for those with sensitive or prone skin to redness after washing.

7-layer hyaluronic acid, which contains 300~1,000 times its weight in moisture, increases moisture in dry skin and helps keep the skin moisturized.

Citric acid, which is mainly used as a pH adjuster that neutralizes alkaline substances in cosmetics and adjusts acidity, is a so-called AHA ingredient such as glycolic acid, lactic acid, and citric acid, and is an ingredient that is highly effective in cleaning the inside of pores.

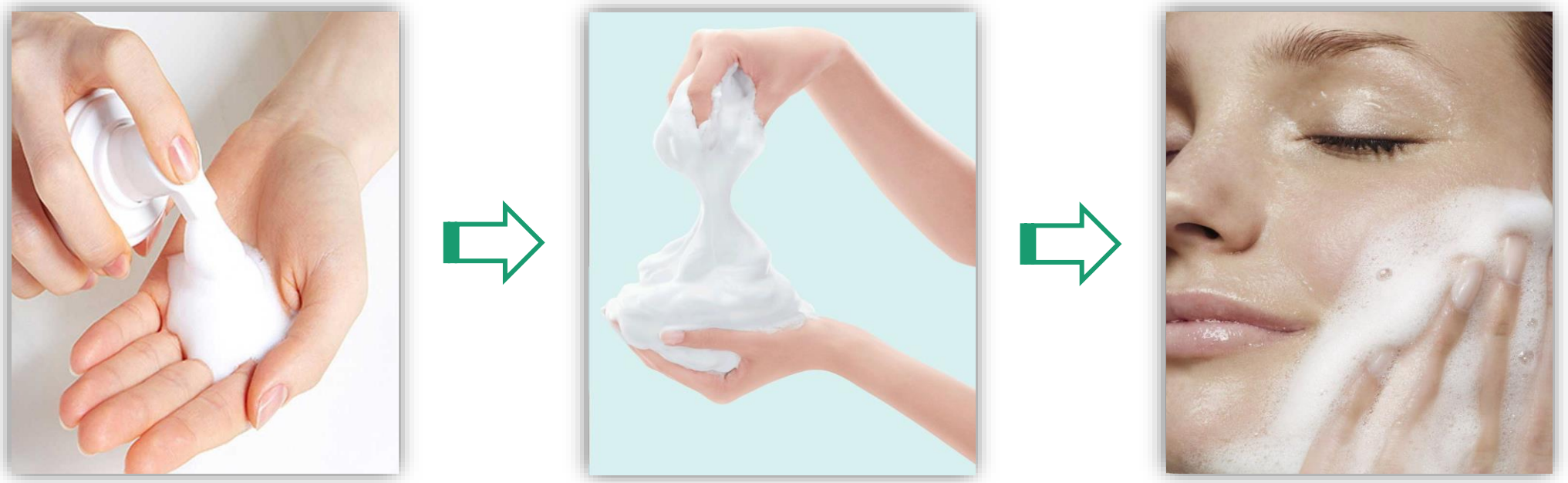
The acidic ingredient contained in citric acid has a soothing effect on the skin by acting on skin itchiness and inflammation. For this reason, it is widely used in mildly acidic products (cleansing, skin care), etc. used for oily skin that produces excessive sebum, or skin with a rapid turnover of dead skin cells.



How To Use

1. Pump an appropriate amount of content into your hands about 2-3 times to gently massage the entire face with bubble foams.

2. Rinse thoroughly with lukewarm water.



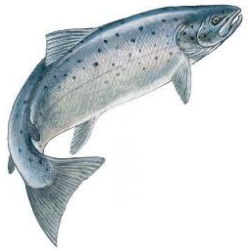
Lysonome PDRN Advance Fluid



(2ml*10EA)

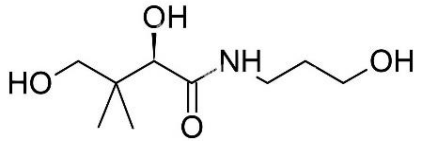
PDRN (sodium DNA), Exosome (Edelweiss Callus Culture Extract), and Panthenol (3%) permeate skin lightly to help make skin elastic and moisturize, and provide nutrients.

Main Ingredients



Sodium DNA

Revitalize the skin
Activate cycle
Helps skin healthier
Skin conditioning
Prevent oxidative stress



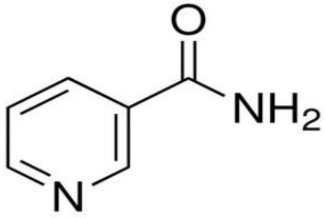
Panthenol

Excellent long-lasting moisturizing effect
Soothes sensitive skin
Repair skin damage
Improves skin elasticity



Leontopodium Alpinum Callus Culture Extract

Skin whitening effect
Skin aging prevention
Skin soothing and protective effect



Niacinamide

Protects against moisture loss in the skin
Skin barrier strengthening effect

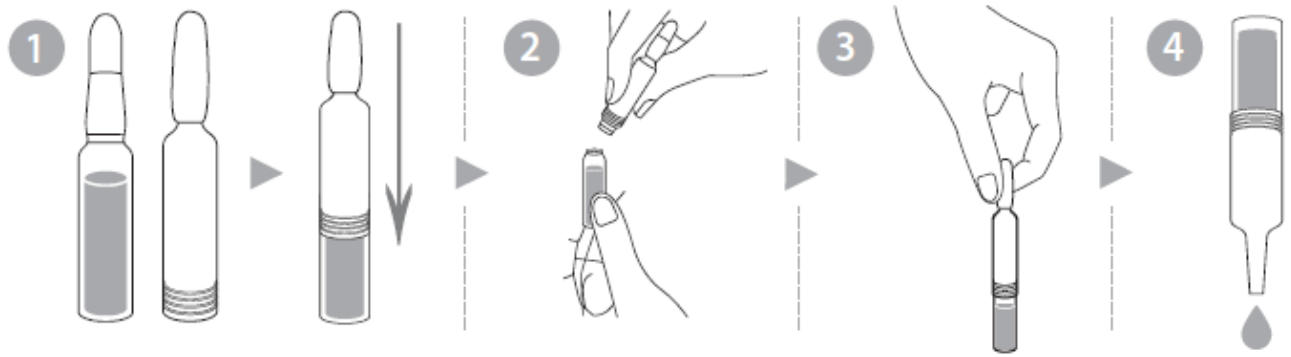
Ingredients

Hydrolyzed collagen, a low-molecular collagen under 500 Da , revitalizes the damaged skin by providing vitality to skin also has the function of absorbing the moisture that has accumulated, directly moisturizing the skin and creating elastic tissue, thereby improving wrinkles.

Acetyl hexapeptide-8, called Botox, which is applied to suppress muscle contraction, has a wrinkle-improving effect by mainly inhibiting the contraction of facial muscles, and is known to be particularly effective for wrinkles between the eyebrows, eyes, and mouth.
In addition to improving skin elasticity, it has effects such as moisture replenishment and skin protection, so it is used in a variety of skin care products.



How To Use



1. Put the plastic opener on the ampoule bottle after directing the upper part of the bottle upwards.
2. Open by pressing firmly from top to bottom until it clicks.
3. Discard the top part removed from the plastic opener cap.
4. Insert the silicone cap deep on the ampoule to be fixed well and use.

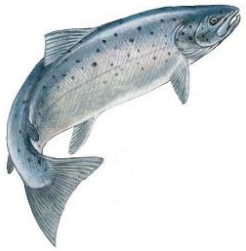
Lysonome PDRN Define Complex



(Freeze-Drying 200mg*2EA, Solution 20ml*2EA)

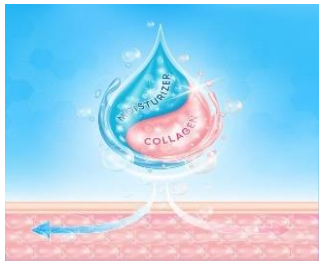
Solution containing PDRN (sodium DNA), which helps improve wrinkles as cells become healthy through collagen synthesis in the dermal tissue, and a solid that is concentrated by rapidly freeze-drying active ingredients that help prevent dry, fine wrinkled skin from becoming rough are used to make the skin surface firm and lively.

Main Ingredients



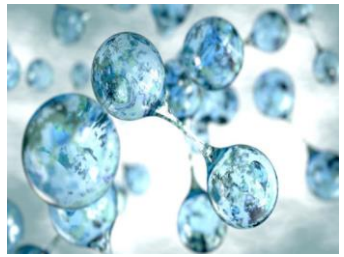
Sodium DNA

Revitalize the skin
Activate cycle
Helps skin healthier
Skin conditioning
Prevent oxidative stress



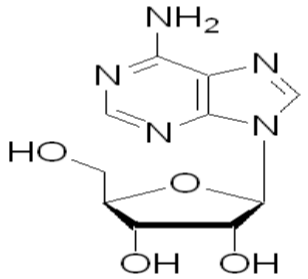
Hydrolyzed Collagen

Improving skin elasticity and wrinkles
Helps joint health
Supplements collagen reduction
due to aging



Sodium Hyaluronate

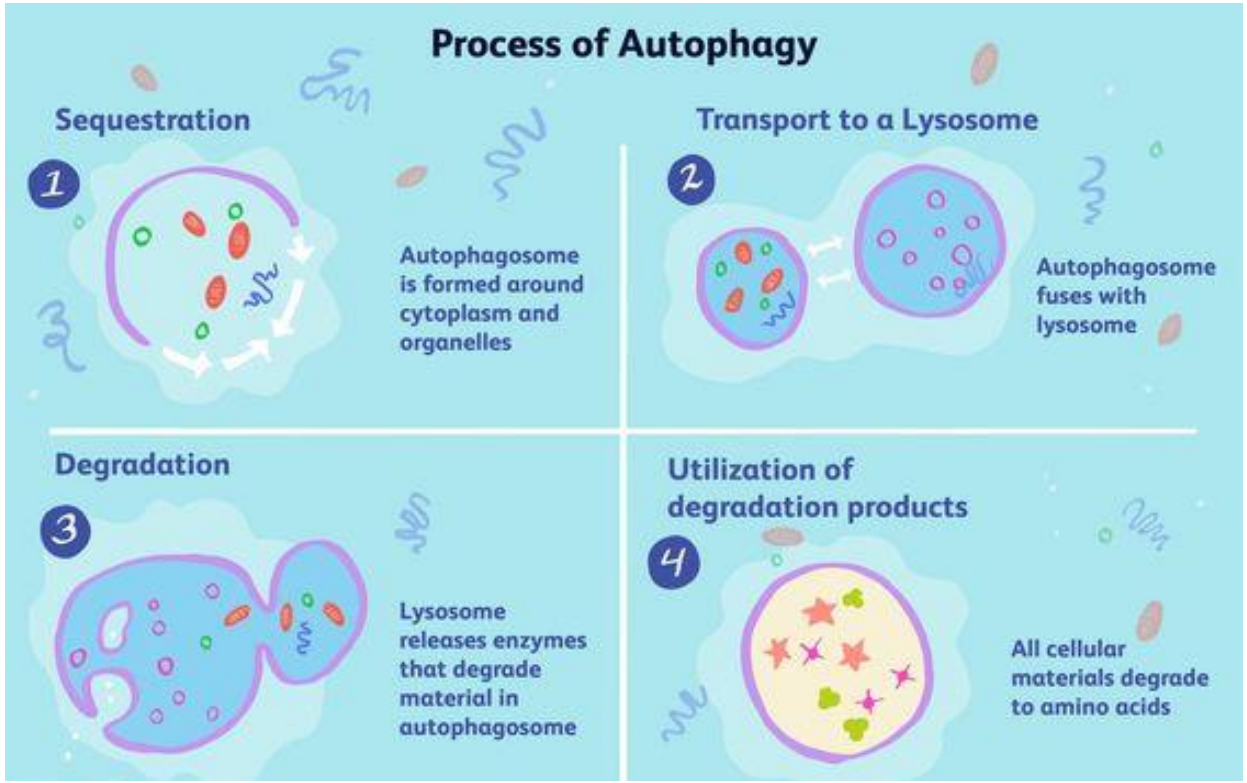
Suppressing skin troubles and
soothing the skin
Help improve skin elasticity and vitality

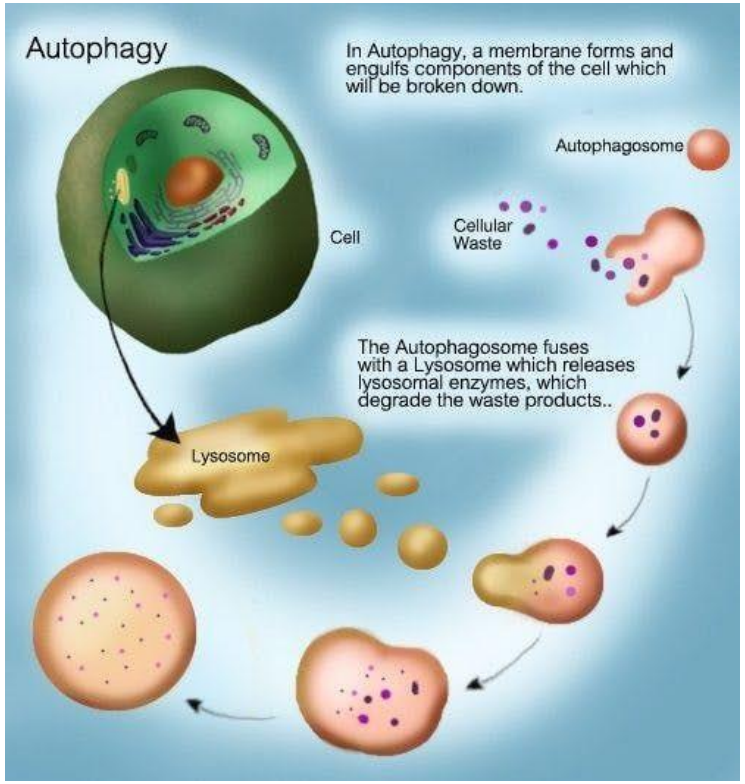


Adenosine

Elasticity enhancement
Wrinkle improvement
Skin autogenous regeneration
capability recovery

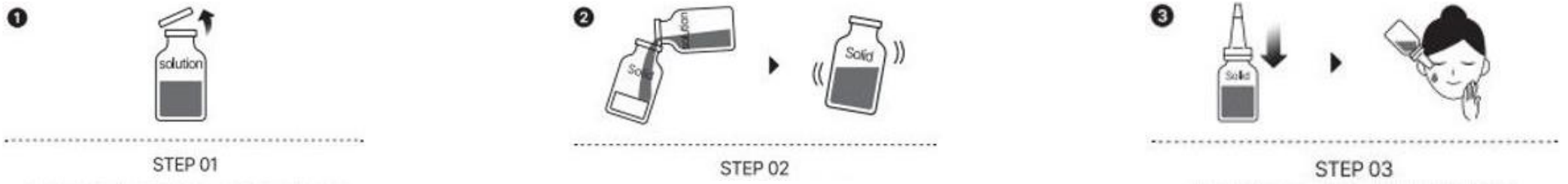
Ingredients





The Aquatide (Heptasodium Hexacarboxymethyl Dipeptide-12) ingredient contained in the solution activates the Autophagy principle, promoting skin's natural regeneration and preventing aging.

How To Use



Put the plastic opener on the ampoule bottle after directing the upper part of the bottle upwards

1. Open by pressing firmly from top to bottom until it clicks.
2. Discard the top part removed from the plastic opener cap.
3. Insert the silicone cap deep on the ampoule to be fixed well and use.

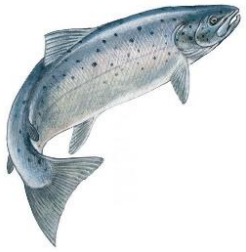
Lysonome PDRN Cura Cream



(50ml)

Ingredients such as PDRN (sodium DNA), which helps improve wrinkles as the cells become healthy through collagen synthesis in the dermal tissue, and Curcuma Longa (Turmeric) Root Extract, which is known to not only improve wrinkles but also exert an anti-inflammatory effect by suppressing inflammatory mediators, help to develop smooth and glossy skin.

Main Ingredients



Sodium DNA

Revitalize the skin
Activate cycle
Helps skin healthier
Skin conditioning
Prevent oxidative stress



Centella Asiatica Extract

Anti-inflammatory
Protect collagen
Reduces active oxygen that caused aging



Polygonum Cuspidatum Root Extract

Helps prevent skin aging
Suppressing the formation of wrinkles and fine lines



Camellia Sinensis Leaf Extract

Effective on anti corrugation and whitening
Preventing skin aging

Ingredients

*Multi EX BSASM (7 plant extract ingredients)

Centella asiatica Root Extract, Scutellaria Baicalensis Root Extract, Camellia Sinensis Leaf Extract, Chamomilla Recutita (Matricaria) Flower Extract, Rosmarinus Officinalis (Rosemary) Leaf Extract, Dipotassium Glycyrrhizate



Curcuma Longa (Turmeric) Root Extract, an ingredient extracted from the roots of turmeric, removes active oxygen that accumulates in the skin when used on the skin, helping to maintain clean skin.
It also contains curcumin, which helps suppress the production of interleukin 8, a protein that causes inflammation, and soothes troubled skin.

How To Use







At the last step of skin care, take an appropriate amount and gently spread along the skin texture to absorb it.

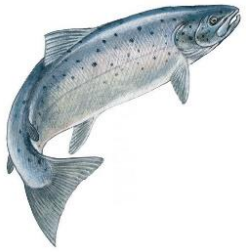
Lysonome PDRN Abound Mist



(50ml)

Betula Alba Juice which quickly absorbed into the skin as it is similar to human body fluids together with Milk protein extract help PDRN (sodium DNA), an ingredient that helps improve wrinkles as cells become healthy through collagen synthesis in the dermal tissue to revitalize and glow the skin.

Main Ingredients



Sodium DNA

Revitalize the skin
Activate cycle
Helps skin healthier
Skin conditioning
Prevent oxidative stress



Betula Alba Juice

Skin moisturizing effect
Skin soothing effect
Antioxidant Effect



Milk Protein Extract

Helps restore hydration and luster to dull skin
Wrinkle care



Citric Acid

Helping to regulate the skin cycle to normal circulation
Unclogs blocked pores

Ingredients

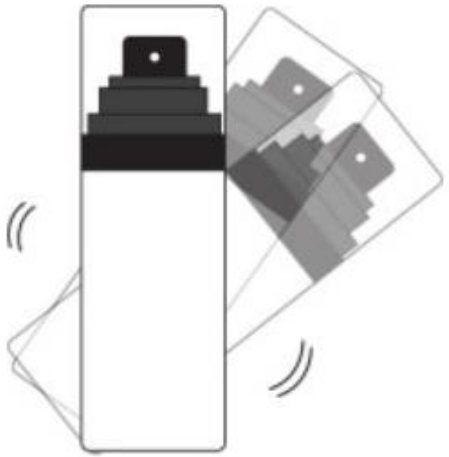


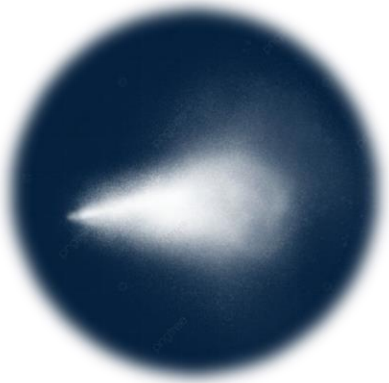


It contains milk protein extract, which contains mineral ingredients that form a skin protective film and excellently regulates oil and water balance, creating an excellent synergistic effect and helping to provide vitality and radiance to the skin.

* Flaking phenomenon - This refers to a phenomenon in which dead skin cells appear due to dry skin.

How To Use







STEP 01) Shake the bottle slightly first.

STEP 02) After shaking the product, close your eyes at a distance of 10-20 cm and spray 3 ~ 4 times over your face to absorb it.

STEP 03) Tap lightly for absorption.

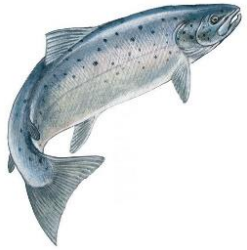
Lysonome PDRN Restore Green Pack



(100ml)

Contains PDRN (sodium DNA), Exosomes (Lactobacillus rhamnosus), and Green tomato extract that reduces vertical pores and removes waste, improving the appearance of fine wrinkles in pores and creating a glossy skin.

Main Ingredients



Sodium DNA

Revitalize the skin
Activate cycle
Helps skin healthier
Skin conditioning
Prevent oxidative stress



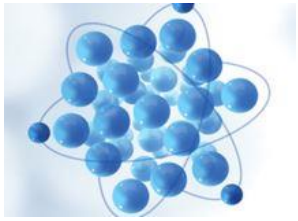
Green Tomato Extract

Enhance skin elasticity
Significant pore refinement
Reduce vertical pores due to loss of skin elasticity



Lactobacillus rhamnosus

Anti-photoaging
Antioxidant and Anti-chronological aging



7 kinds of Peptides

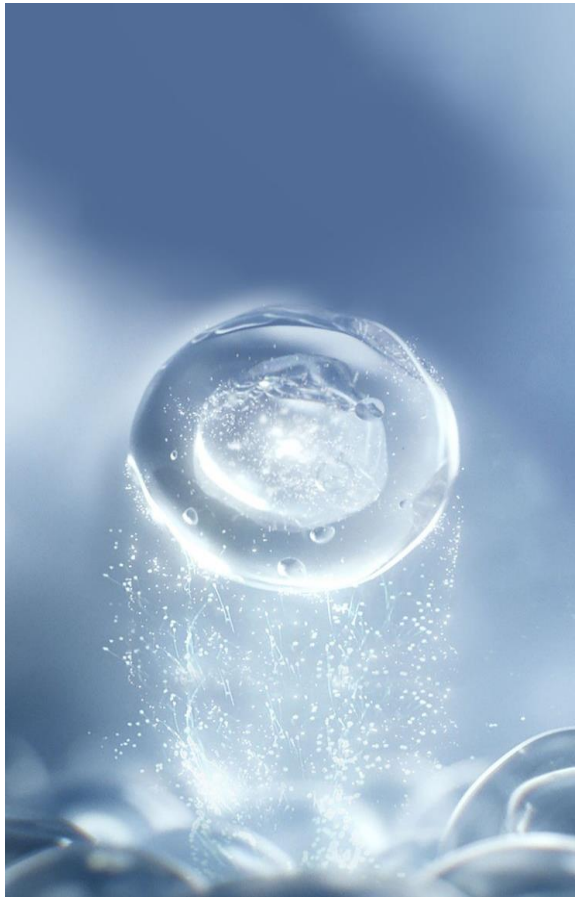
Providing Skin Vitality
Circulation Cycle Activation
Prevent Oxidative Stress

Ingredients

*Lactobacillus rhamnosus Ferment

It is an ingredient fermented using Lactobacillus, one of the lactic acid bacteria, and through the fermentation process, various substances beneficial to the skin are produced.
These substances released during the fermentation process bring various effects to the skin, including soothing, moisturizing, anti-inflammatory, and antioxidant.

Hyaluronic acid, which is called a moisture magnet due to its high hydrophilicity, is extracted from the joint fluid and skin of animals and has the ability to attract moisture 100~1,000 times its weight, forming a moisture film on dry skin and keeping the skin moist.



How To Use







1. After washing your face, cleanse your skin with toner and squeeze or press the tube before apply the product to face.

2. Wait until the content turns into a membrane. (In general, it takes about 30-40 minutes to form a film.)

* * Formation time may vary depending on skin condition and humidity, and also how many volume you applies.

3. After removing the membrane, tap the remaining contents on the skin for absorption.

Notice for Use

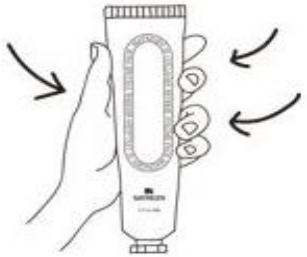
Tips 1

It is better to use it right after washing your face and not to apply other cosmetics before using it.



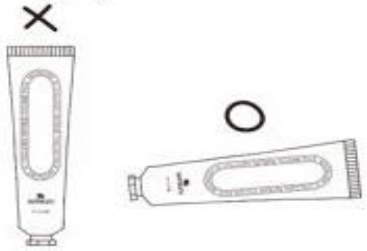
Tips 2

It is good to rub the tube gently before use.



Tips 3

For long-term storage, please lie down instead of standing up.



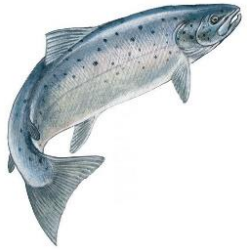
Lysonome PDRN Retain Bio-Cellulose Mask



(30g * 5EA)

PDRN (sodium DNA), which helps improve wrinkles as the cells become healthy through collagen synthesis in the dermal tissue, and Beta-Glucan that forms a skin protective film to relieve irritation and increases skin elasticity, which are effective in preventing aging, absorb deep into the skin help to improving health and firm skin.

Main Ingredients



Sodium DNA

Revitalize the skin
Activate cycle
Helps skin healthier
Skin conditioning
Prevent oxidative stress



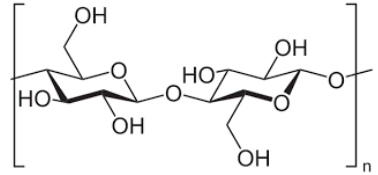
Betaine

Helps remove free radicals and prevent cell damage through antioxidant action
Anti-aging



Hydrolyzed Hyaluronic Acid

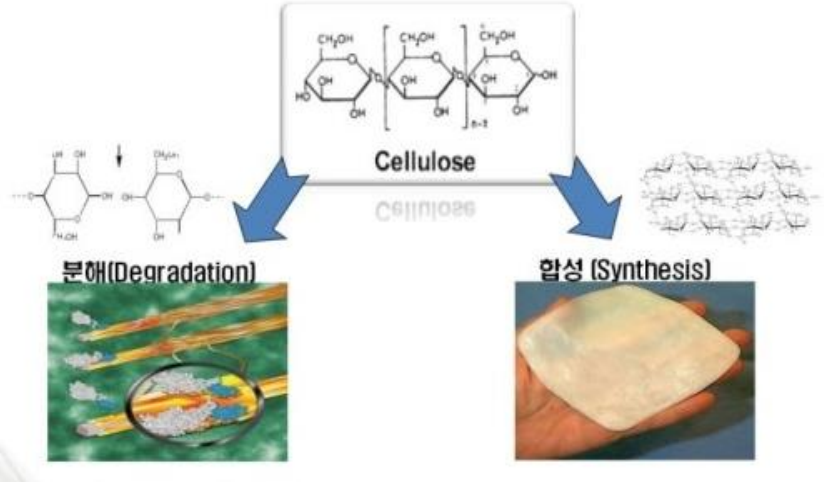
Able to penetrate deeper into the skin
Plumps fine lines

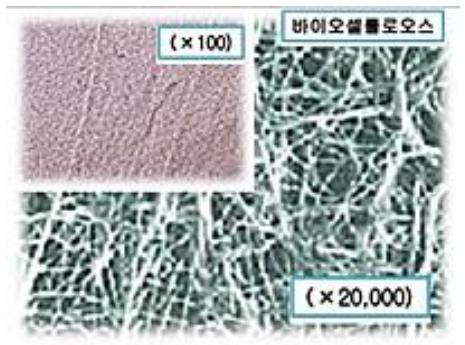


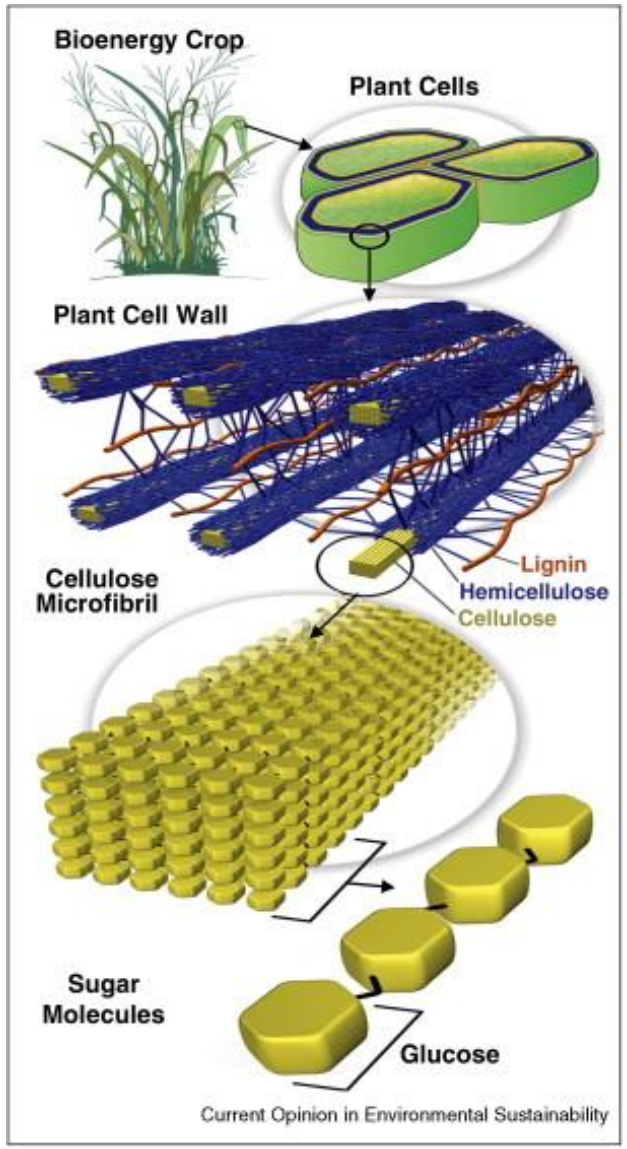
Beta-Glucan

Plumps skin
Wound healings
Reduces the appearance of the fine lines and wrinkles

Sheet Material



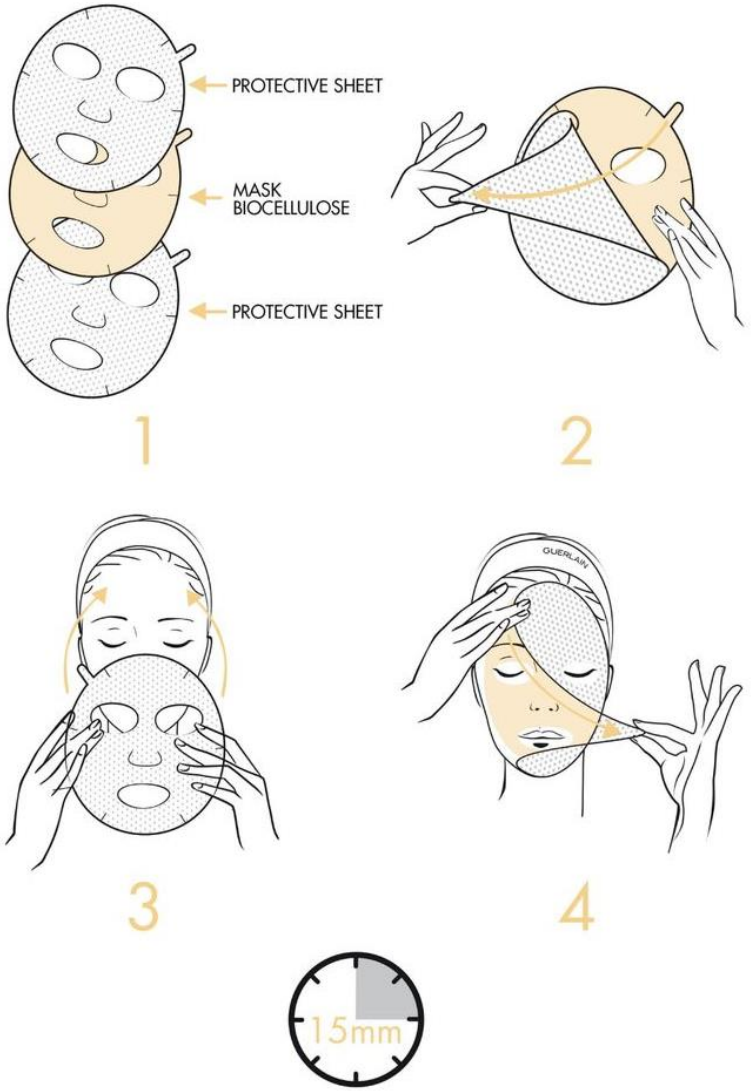








How To Use



STEP 01) After arranging the skin texture, first remove the film side of the mask sheet.

STEP 02) Attach the film to the face in the direction of removing it and remove the non-woven fabric on the other side once more.

STEP 03) Carefully align the center of the sheet with your face.

STEP 04) Remove after 10 ~ 20 minutes and absorb the remaining essence on the skin.

Human Study Report



GSC Anti-aging Lab

Sponsor | MesoPharm Co., Ltd.
Institution | Global Standard Certification Co., Ltd. GSC Anti-aging Lab
Issued Date | 2025.01.03

GSC 안티에이징랩 피부 유효성 평가 (영문)





GSC 안티에이징랩 피부 유효성 평가 (영문)





GSC 안티에이징랩 피부 유효성 평가 (영문)





Thank You



MESOPHARM

Lysonome Hexa



'Lysonome Hexa, helps maintain bright and clear skin'

MESOPHARM

Contents

1. Lysonome Brand Telling
   - Meaning
   - Catch phrase
   - Slogan
   - Banner

2. Lysonome Second Project _ Hexa Introduction
   - What does Hexa mean?
   - Hexa Efficacy

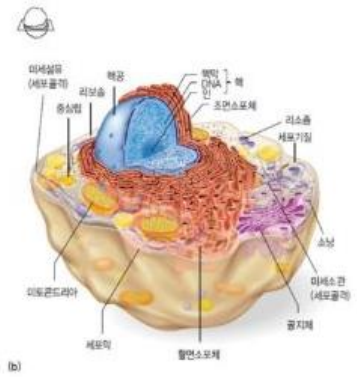
3. Lysonome Hexa Line _ 4 Major Product Lists

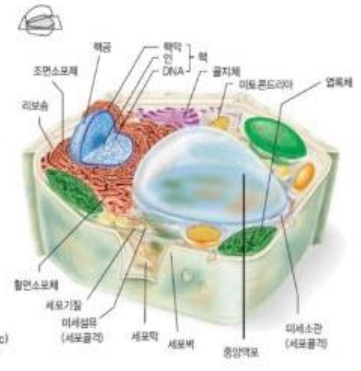
Lysonome

Meaning

Lysonome is a brand created by synthesizing "lysosomes,"
which play a particularly important role in cells that absorb nutrients through the intracellular intake process,
which are involved in maintaining intracellular homeostasis by self-digesting cells themselves when nutrients are lacking
or damaged organelles occur, and "genome," which refers to the blueprint of a living organism and
is a general term for genetic information that represents genetic traits.

Simply put, Lysonome is a new word that combines lysosomes,
which are cell activators and serve as cell recycling centers that change harmful cells into harmless cells,
and genomes, a collection of genes, are the neologisms.





Lysonome = Lysosome + Genome

Catch phrase

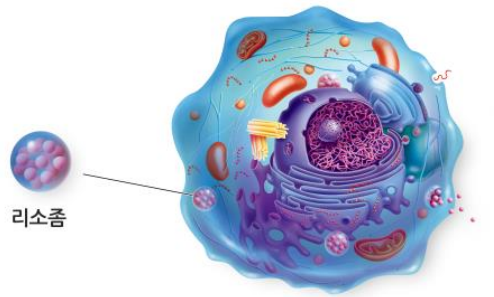
"Lysonome, a brand created to protect skin cell activators more accurately and reliably“

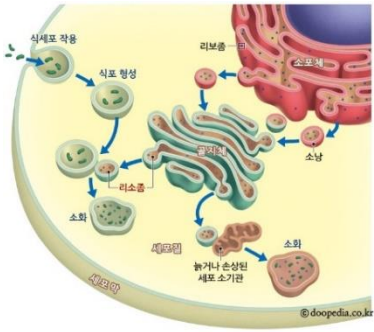
Banner

"Highly concentrated ingredient brand 'Lysonome' is inspired by skin types and is created to effectively help protect the skin, customized brand designed to enable select and concentrate Corning to condition."

Slogan

"Lysonome, fascinated by you."





Why should choose Lysonome

Because it is an export-specialized brand(International trademark)

Lysonome is a brand that has been officially registered, licensed, and certified as a brand trademark in about **20 countries**.

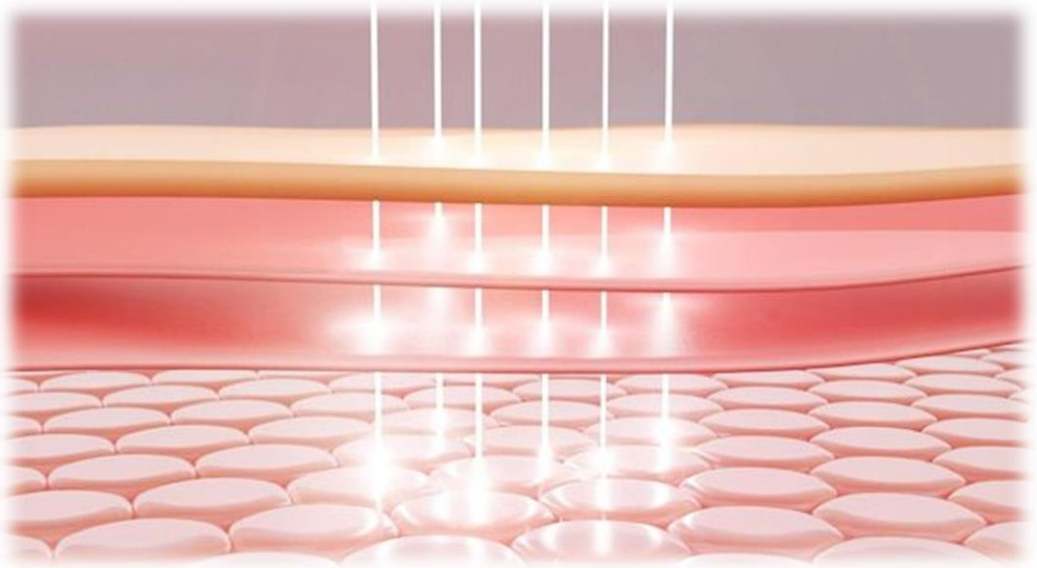
In order to protect buyers from various countries who have trusted Meso Pharm and purchase products for a long time, and to safely protect the characteristics and unique products of Lysonome, the **Madrid International Trademark Application** has applied.

WIPO | MADRID
The International Trademark System

특허청

Lysonome Second Project _ Hexa

'HEXA'
Hexylresorcinol



Lighten dark spots and reduce the appearance of wrinkles and fine lines

Synthetic organic compound, Hexylresorcinol



Hexylresorcinol is a synthetic organic compound widely used in cosmetics for its **multifunctional skin benefits**.
It is inspired by natural alkylresorcinols found in the bran of rye and other cereals, but is typically produced by organic synthesis for use in skincare and cosmetic formulations.

Also Hexylresorcinol is a multifunctional ingredient widely used in modern skin care for its diverse and well-researched benefits.

Hexylresorcinol is clinically proven to be **four times more effective** than Hydroquinone.
Multiple clinical studies with Synovea® HR demonstrated its strong performance in **skin brightening** and **hyper-pigmentation control** for all phototypes, with anti-aging benefits.

What does Hexa mean?

Hexa

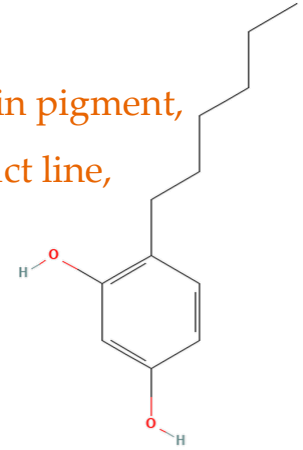
= Hexylresorcinol (OR) = Hexadecimal

Hexadecimal's significance was included in the line in the belief that the infinite number of brightening ingredients will continue to grow, develop, and advance.

In other words, the reason for using the abbreviation “HEXA” is an abbreviation created to express infinite binaries to embrace new exciting Brightening raw materials that will be encountered in the future and to provide product lines tailored to each characteristic.

Hexa line was created with the aim of **brightening effect**.

The reason for choosing Brightening rather than whitening is that whitening only makes the skin white by lightening the melanin pigment, but Brightening helps improve the overall complexion of the skin, therefore, it is possible to create a more comprehensive product line, which fits the name of the “HEXA” line.

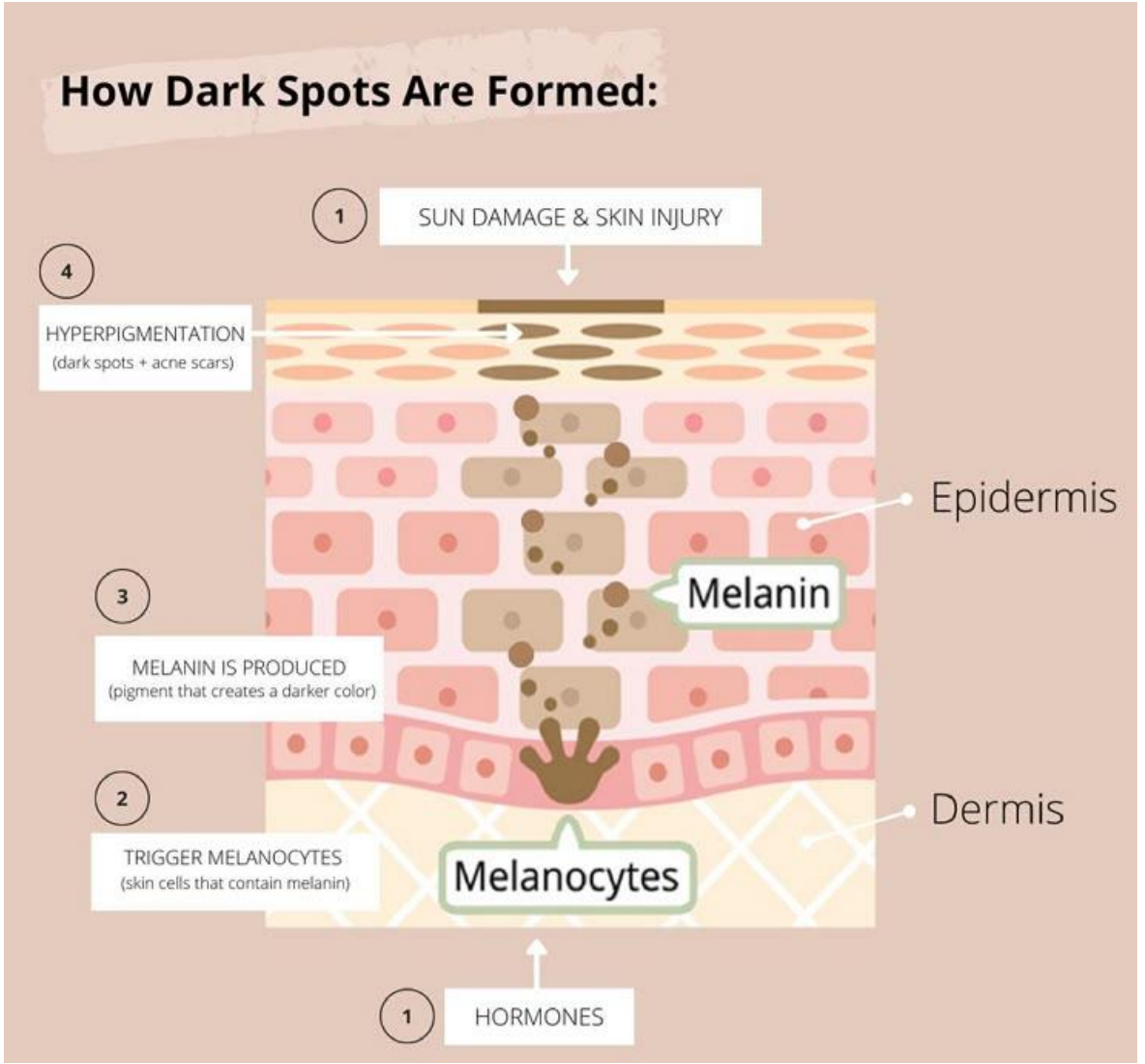


What does Hexylresorcinol do?

Our body needs skin benefits that provide bright skin and boosting effects because when we are stressed, melanin is produced, making our skin tone dark and uneven, or there are cases where continuous care is needed due to hyperpigmentation.

Hexylresorcinol can help alleviate some of these concerns by suppress melanin production, relieve blemishes, improve skin tone, and improve skin overall complexion of the skin.

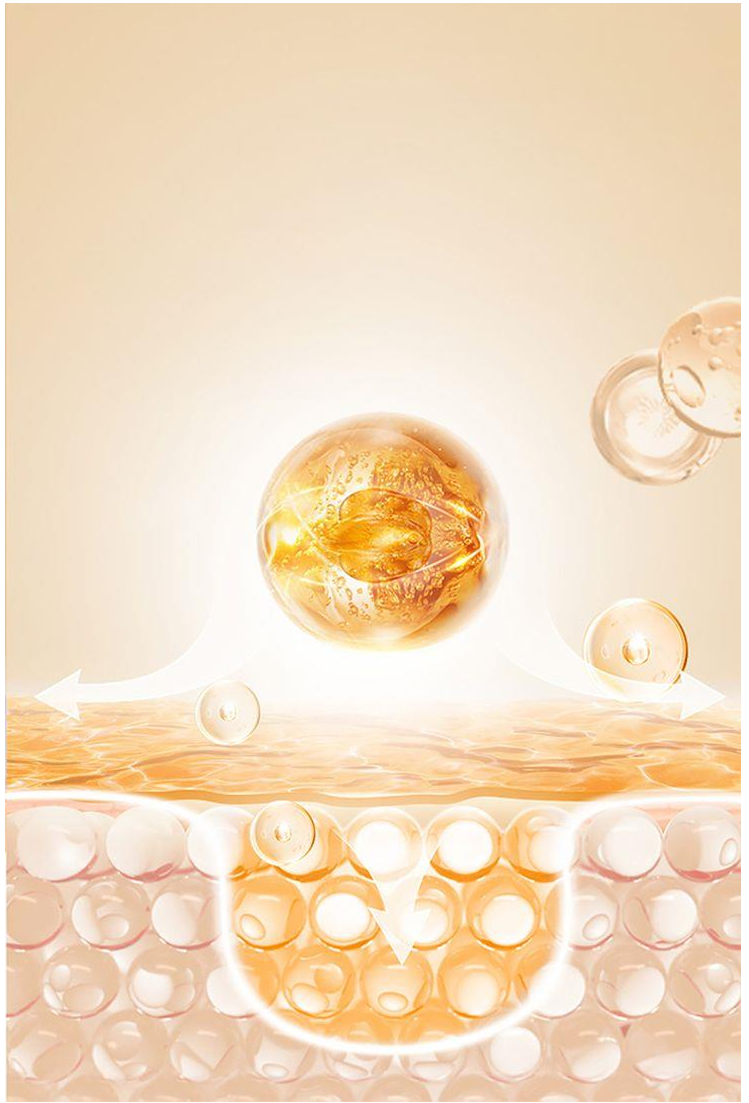
It offers antioxidant and anti-inflammatory benefits, protecting the skin from environmental damage and promoting a more even, luminous complexion.
It also plays a role in interrupting specific pathways in skin that lead to hyperpigmentation and uneven skin tone, thus improving the uniformity of skin's surface color.



What does Hexylresorcinol do?

Hexylresorcinol is considered a safe and effective alternative to longstanding dark spot ingredient hydroquinone. Clinical studies have shown excellent synergy of this ingredient paired with the B vitamin niacinamide, various forms of vitamin C and various retinoids. It's also been shown to be more effective at fading discolorations than kojic acid or licorice extract.





Efficacy of Hexa

- **Skin Brightening and Lightening:**

Hexylresorcinol is best known as a skin-brightening agent. It works by inhibiting tyrosinase, a key enzyme in melanin production, which helps reduce hyperpigmentation and even out skin tone. Clinical studies have shown that at concentrations as low as 0.5%, it can achieve skin-lightening results comparable to 2% hydroquinone, a traditional but more controversial skin-lightening agent.

- **Antioxidant Properties:**

It acts as an antioxidant, helping to neutralize free radicals and protect skin from oxidative stress, which can contribute to aging and pigmentation issues.

- **Astringent and Anti-inflammatory Effects:**

Hexylresorcinol also has astringent and anti-inflammatory properties, contributing to a more even complexion and supporting skin barrier health.

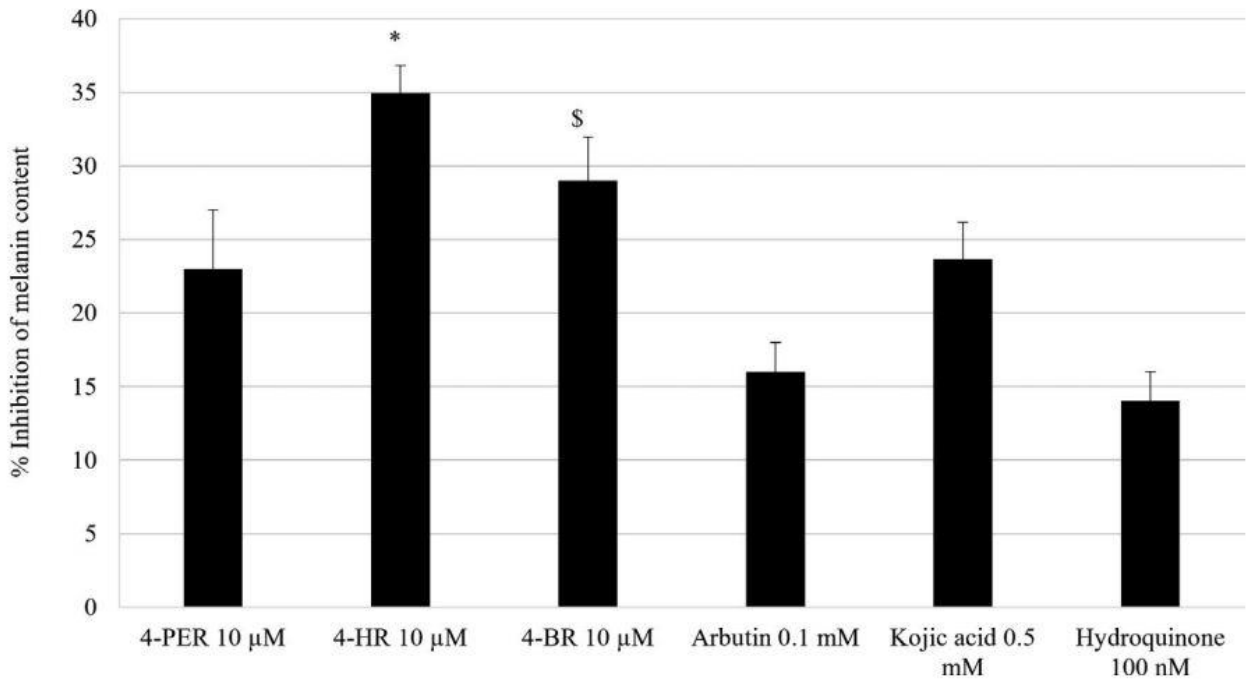
- **Anti-glycation:**

The ingredient helps prevent glycation—a process where sugars bind to skin proteins, leading to stiffening and the formation of pigment spots—thereby supporting skin firmness and clarity.

- **Antimicrobial and Regeneration Booster:**

It possesses mild antiseptic and local anesthetic properties, and can stimulate growth factors to promote cell renewal and wound healing.

Efficacy of Hexa



Effect of HR on melanin content in melanocytes after 72 h of treatment.

The values are mean ± SD of three independent sets of experiments. *$p < 0.05$; statistically significant versus kojic acid, arbutin, and hydroquinone; $ $p < 0.05$; statistically significant versus arbutin and hydroquinone

Efficacy of Hexa



Subject 1:

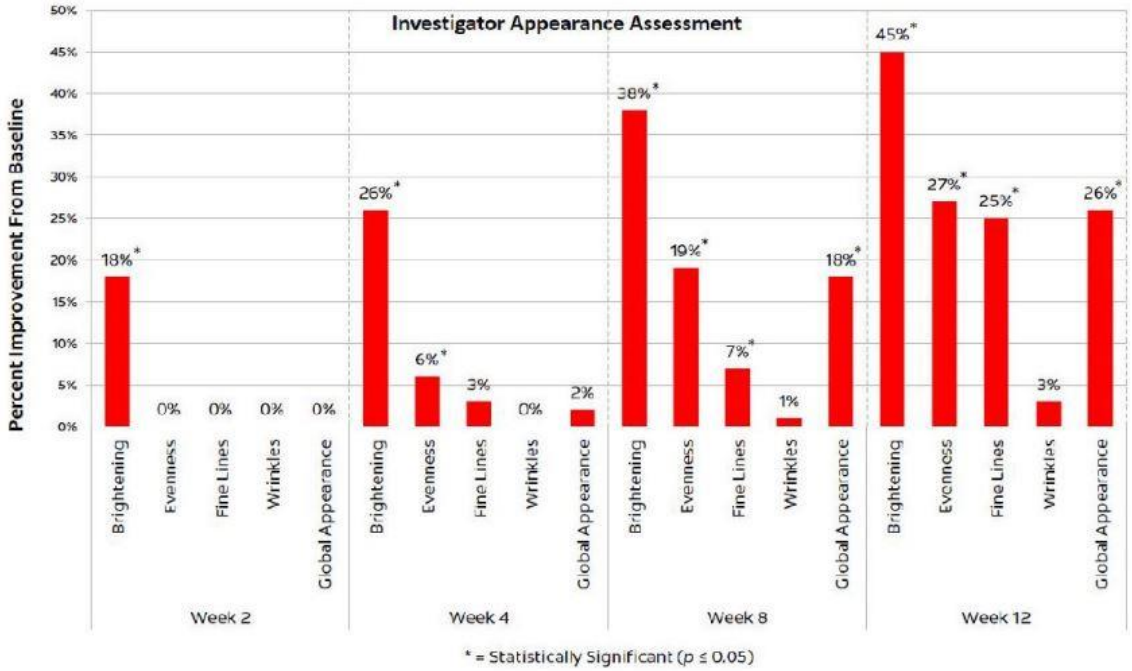
49-year-old woman with left side treated with **HR (0.4%)** + niacinamide (3%) formulation, baseline image (left), and post 12 weeks product application image (right)



Subject 1:

49-year-old woman with right side treated with 3% niacinamide formulation, baseline image (left), and post 12 weeks product application image (right)

Efficacy of Hexa



After 2 weeks of use, the dermatologist investigator noted a statistically significant 18% improvement in facial brightening (P < .001).

More cumulative improvement was seen at week 4, with a statistically significant 26% improvement in brightening (P < .001) and 6% improvement in evenness (P = .016).

At week 8, there was a significant improvement (P < .001) in brightening (38%), evenness (19%), and global facial appearance (18%) with improvement also seen in fine lines (P = .008, 7%). The greatest cumulative improvement as compared to baseline was seen at week 12 (P < .001) with an average 45% improvement in skin brightening, 27% improvement in skin evenness, 25% improvement in fine lines, and 25% improvement in global facial appearance.

Efficacy of Hexa

Comparison to Other Skin Lighteners

Ingredient	Mechanism	Efficacy	Safety Profile	Notes
Hexylresorcinol	Tyrosinase inhibitor	High (comparable to HQ)	Very good	Low irritation, multifunctional
Hydroquinone	Tyrosinase inhibitor	High	Moderate/controversial	Banned in some countries, irritation
Kojic Acid	Tyrosinase inhibitor	Moderate	Moderate	Potential for irritation, instability
Licorice Extract	Tyrosinase inhibitor	Moderate	Good	Plant-based, color/formulation issues

Lysonome Hexa Line _ 4 Major Products

Hexa Glow Serum

Volume : 30ml

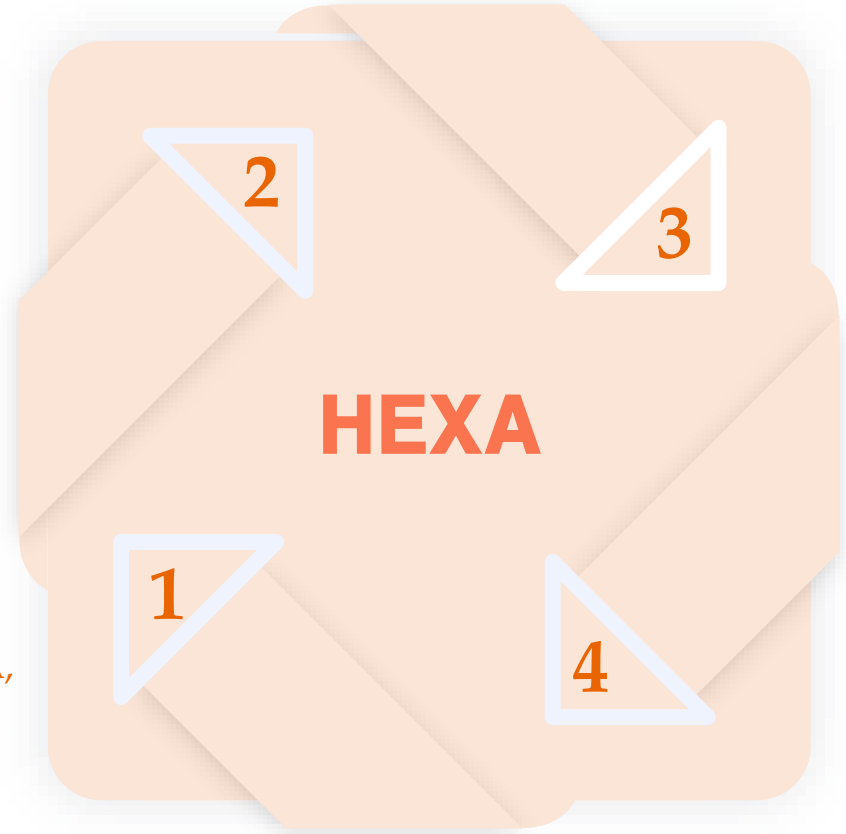
(2nd Step)

Hexa Infuse Complex

Volume : Freeze-Drying 300mg*1EA,

Solution 20ml*1EA

(1st Step)



Hexa Aster Cream

Volume : 50ml

(3rd Step)

Hexa Sparkling Powder Cream

Volume : 15ml

(4th Step)

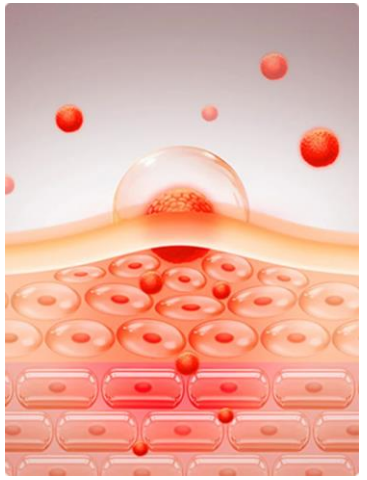
Lysonome Hexa Line _ 4 Major Products

*** How long does it take to see results?**

If you are using this ingredient in the proper skin care routine for your skin type, you can expect results in **8-16 weeks**.
It is recommended to use it at night, but if you use it during the day, be sure to apply sunscreen and avoid strong sunlight and fluorescent lights.

*** What is hexylresorcinol good for?**

Some of the notable benefits of this ingredient include:
Lightening dark spots
Alleviating acne
Treating sun damage
Improving aged skin





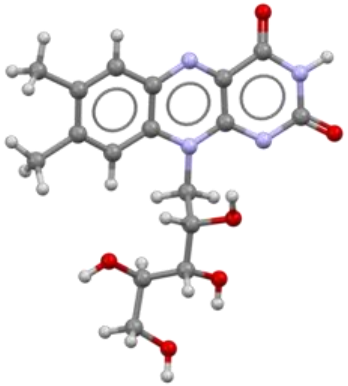
Lysonome Hexa Glow Serum



(30ml)

A brightening serum that contains Hexylresorcinol and Alteromonas Ferment Extract to give vitality to dull and dark skin and help maintain moist skin with its rich moisture.

Main Ingredients



Riboflavin

Promotes Skin Cell Regeneration
Enhances Skin Hydration
Antioxidant Protection
Improve Wound Healing



Alteromonas Ferment Extract

Skin Barrier Protection
Antioxidant Protection
Suitable for Sensitive Skin
Moisturizing



Oryza Sativa (Rice) Bran Water

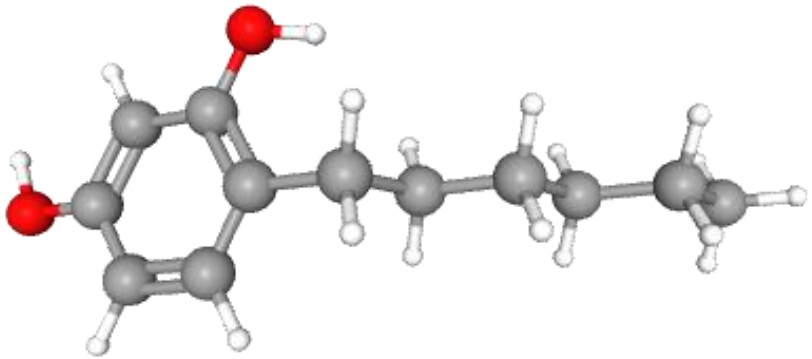
Skin Brightening
Antioxidant and Anti-aging
Sun Protection
Exfoliating



Amino Acid Complex

Enhanced Hydration
Reduced Redness and Soothing
Collagen Boosting and Repair
Antioxidant Protection

Ingredients



Hexylresorcinol

* **Skin Brightening :** Hexylresorcinol helps to lighten the skin by reducing the production of melanin, which is responsible for skin pigmentation. This can lead to a more even skin tone and a brighter complexion.

* **Dark Spot Reduction :** It effectively minimizes the appearance of dark spots, freckles, age spots, and other forms of hyperpigmentation by interfering with the pathways that lead to their formation.

* **Antioxidant Protection :** As an antioxidant, hexylresorcinol combats free radicals, unstable molecules that can damage skin cells and accelerate aging.

How To Use



Take an appropriate amount and gently apply as the first step of your skin care routine every evening.

*It is recommended to using it with sunscreen in the morning.

Lysonome Hexa Infuse Complex



(Freeze-Drying 300mg*1EA, Solution 20ml*1EA)

Freeze-dried powder containing Lactobacillus Extracellular Vesicles and Hexylresorcinol keeps the skin clear and lively and keeps the skin moist with rich moisture.

Main Ingredients



Lactobacillus Extracellular Vesicles

Improved Skin Hydration
Anti-Inflammatory Effects
Pigmentation Reduction
Enhanced Skin Barrier Function



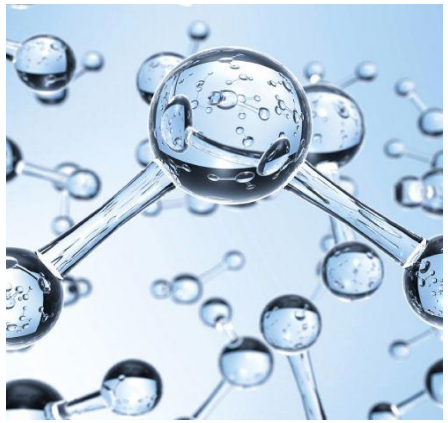
Hippophae Rhamnoides Fruit Extract

Promotes skin regeneration
Restores the skin's lipid barrier
Reduces hyperpigmentation
Antioxidant protection



Betula Alba Juice

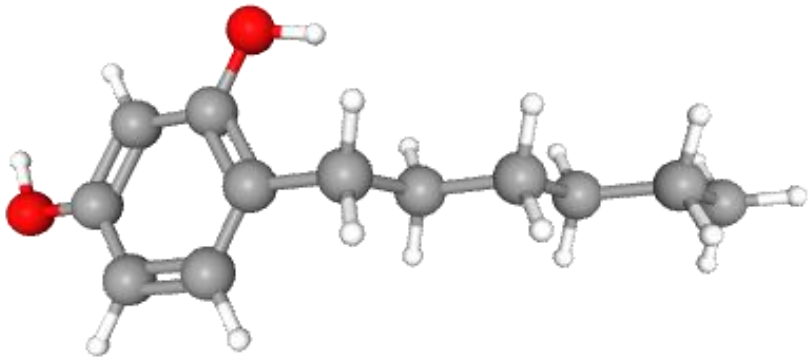
Skin Barrier Support
Improved Skin Tone and Radiance
Antioxidant Properties
Anti-inflammatory



Hydrolyzed Collagen

Skin Firmness and Smoothness
Antioxidant Properties
Enhanced Skin Elasticity
Improved Skin Hydration

Ingredients



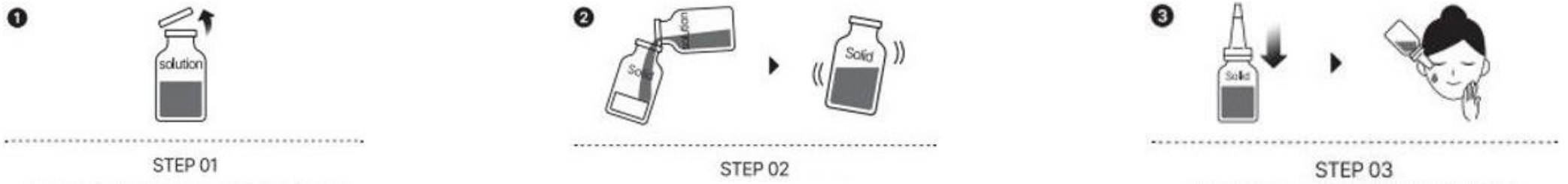
Hexylresorcinol

* **Skin Brightening :** Hexylresorcinol helps to lighten the skin by reducing the production of melanin, which is responsible for skin pigmentation. This can lead to a more even skin tone and a brighter complexion.

* **Dark Spot Reduction :** It effectively minimizes the appearance of dark spots, freckles, age spots, and other forms of hyperpigmentation by interfering with the pathways that lead to their formation.

* **Antioxidant Protection :** As an antioxidant, hexylresorcinol combats free radicals, unstable molecules that can damage skin cells and accelerate aging.

How To Use



Put the plastic opener on the ampoule bottle after directing the upper part of the bottle upwards

1. Open by pressing firmly from top to bottom until it clicks.
2. Discard the top part removed from the plastic opener cap.
3. Insert the silicone cap deep on the ampoule to be fixed well and use.

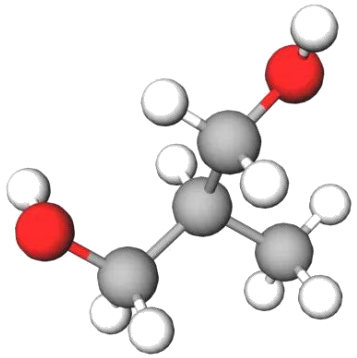
Lysonome Hexa Aster Cream



(50ml)

A whitening cream containing Hexylresorcinol and Alteromonas Ferment Extract that provides firm moisture and nutrition to dull skin and helps create clear skin.

Main Ingredients



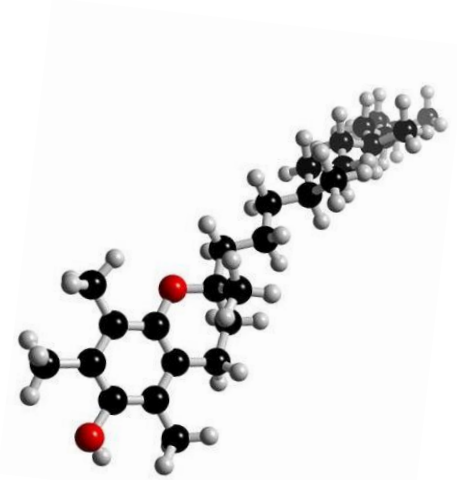
Methylpropanediol

Enhanced Absorption
Skin Texture Improvement
Preservative Booster
Reduced Irritation



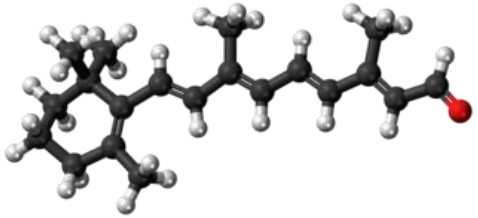
Alteromonas Ferment Extract

Skin Barrier Protection
Antioxidant Protection
Suitable for Sensitive Skin
Moisturizing



Tocopheryl Acetate

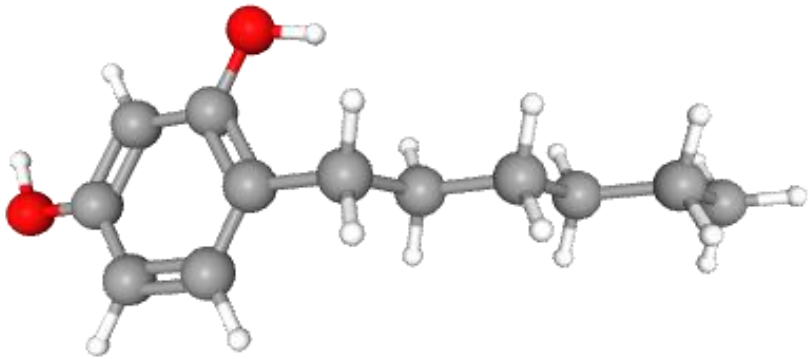
Antioxidant Protection
UV Protection
Skin Healing
Reduce hyperpigmentation



Retinal

Reduces hyperpigmentation
Promotes a brighter complexion
Enhances skin radiance
Improves skin hydration

Ingredients



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How To Use



Apply an appropriate amount gently along the skin texture and tap lightly to help absorption.

Lysonome Hexa Sparkling Powder Cream



(15ml)

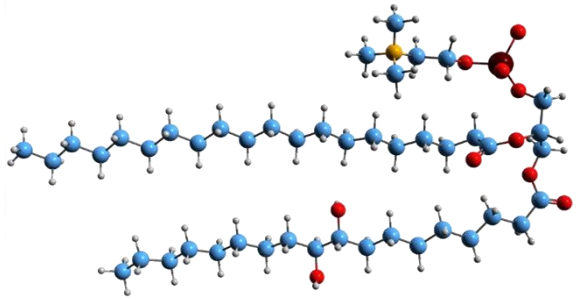
Sparkling formula melts at skin temperature and is naturally absorbed into the skin, while Lactobacillus Extracellular Vesicles and Hexylresorcinol help maintain skin elasticity and a clear complexion.

Main Ingredients



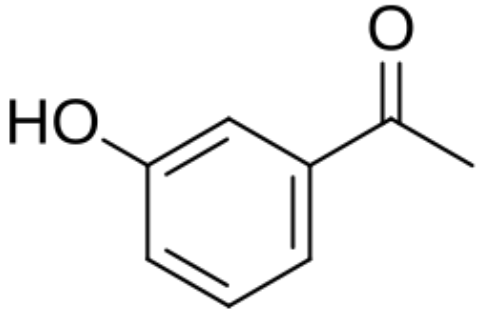
Propanediol

Emollient
Humectant
Reduced Greasiness
Smooth Application



Lecithin

Barrier Repair
Antioxidant Effects
Texture Improvement
Calming and Soothing



Hydroxyacetophenone

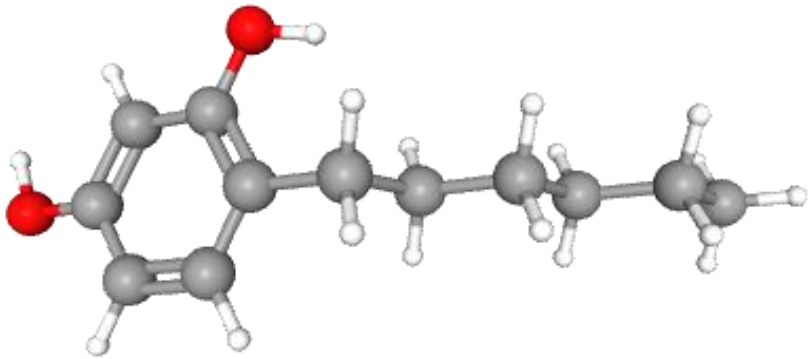
Antioxidant
Preservative Booster
Anti-inflammatory
Soothing



Citrus Paradisi (Grapefruit) Fruit Extract

Antioxidant Protection
Brightening and Even Skin Tone
Oil Control and Blemish Reduction
Improved Skin Texture and Clarity

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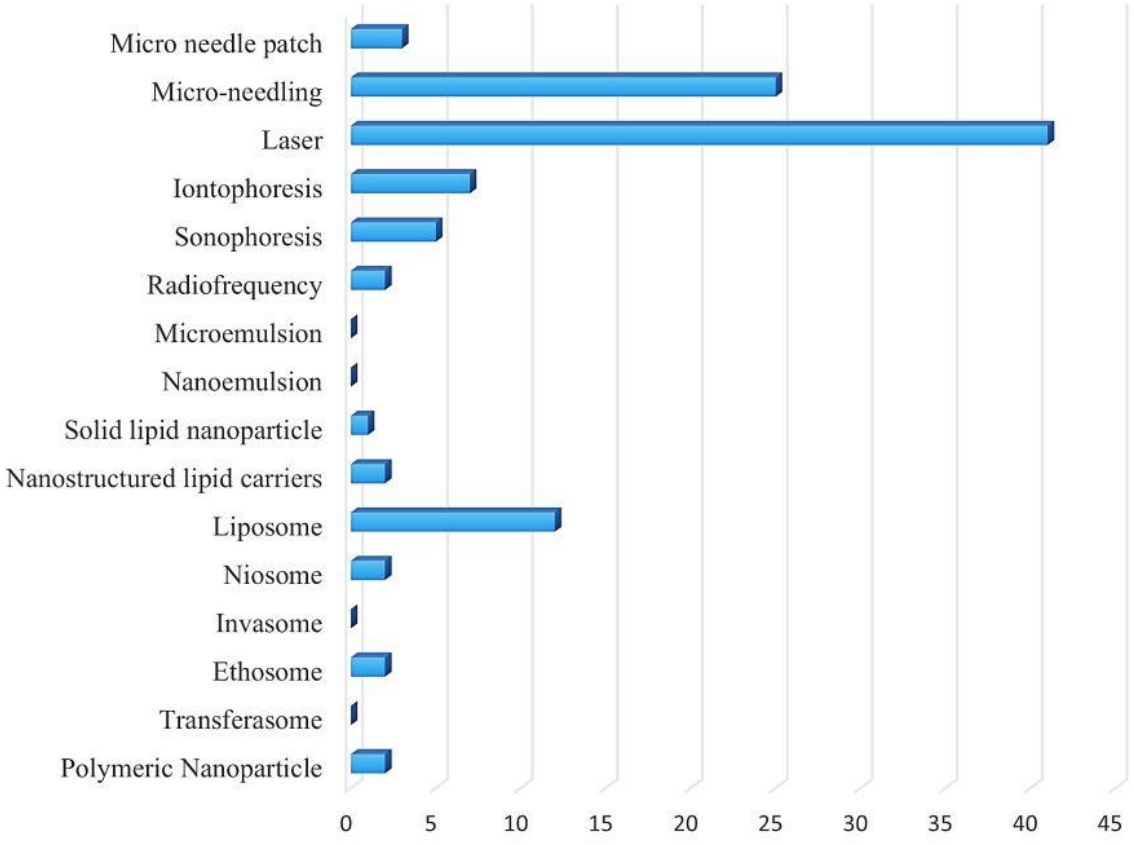




1) Press the convex part on the back of the bottle to spray the powder cream directly on your face, then press in a circular motion with your hands.

2) Use in the morning and evening.

Can use Hexa line for professional?



Clinical trials on melasma drug delivery from 2000 to 2023

A comprehensive review was conducted on energy-based approaches (micro-needle patches, MN, iontophoresis, sonophoresis, laser, and RF), nanoparticles (MEs, NEs, SLNs, NLCs, liposomes, niosomes, ethosomes, invasomes), and polymeric nanoparticles (chitosan-based nanoparticles) that enhanced drug delivery in melasma treatment.

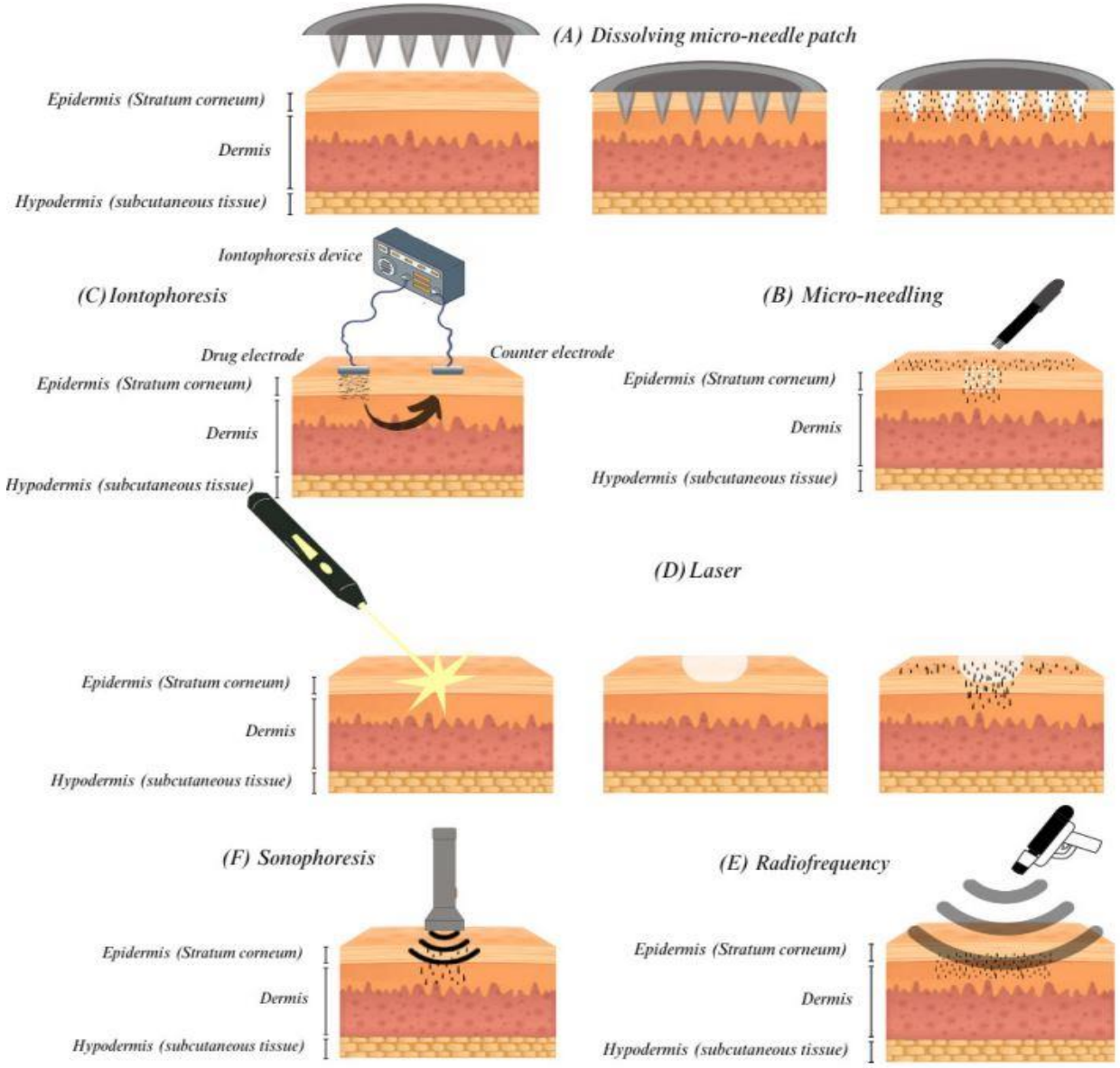
Other relevant or animal research was evaluated to find any information related to melasma treatment. Then, we compared MASI or mMASI of clinical trials of different methods to identify which physical method or nanoparticles has a better response in enhancing drug delivery for melasma treatment. Finally, information was sorted and discussed based on physical methods and nanocarriers to enhance skin penetration and melasma treatment.

We reported and compared between studies with following terms: MASI, mMASI, aMASI, Hemi-MASI, MOPASI, Luminance value (L value), and MI.

Can use Hexa line for professional?

Energy-based methods; Micro-needle patches (A), Micro-needling (B), Iontophoresis (C), Laser (D), Radiofrequency (E), and Sonophoresis (F)

Lysonome Hexa Glow Serum(30ml) and **Lysonome Hexa Infuse Complex(Freeze-Drying 300mg*1EA, Solution 20ml*1EA)** can use in Profession the MTS depth of 0.25mm ~ 0.5mm.



Thank You.

Third Line will reveal in this 3rd quarter of year.



Thank you.


Lysonome
PDRN
Retain
Bio Cellulose Mask


Lysonome
HEXA
GLOW SERUM
HEXA
SPARKLING
POWDER CREAM
Lactobacillus Extracellular Vesicles
Hexylresorcinol
Glutathione
HEXA
INFUSE COMPLEX
Niacinamide
HEXA
ASTER CREAM