

Cosmetic Material



Research Supporting



Development Supporting

COSEEDBIOPHARM

Address : 68, Osongsaengmyeong 2-ro, Osong-eup, Heungdeok-gu, Cheongju-si, Chungbuk, Korea
Tel : +82-43-274-9097 **Website :** www.coseed.co.kr

COSEEDBIOPHARM

Our Vision

We supply natural ingredients to the next level of energy, vitality, regeneration and beauty.
Enriching lives in harmony with nature.

18

18 Years of CoSeedBioPharm: A Journey of Innovation and Growth

CoSeedBioPharm has grown into a leading ingredient manufacturer in South Korea. We are committed to localizing high-quality functional ingredients.

40

Researchers make up 40% of the total employees.

CoSeedBioPharm is committed to scientific research and invests 40% of its total employees in R&D.

20

Expanding Market Reach to 20 Countries

We have expanded our market by building a global network with 21 global companies in Asia, America, Europe, and Africa.

130

More than 130 patents granted and filed

With 117 registered patents, 33 domestic and international patent applications, and 21 trademark applications, we are strengthening the uniqueness and expertise of our products.

1

Build a one-way system of raw material-evaluation-product-marketing

We have established a one-way system that encompasses the entire process of cosmetic material development, evaluation, product manufacturing, and marketing.

20,000

Daily average production capacity of 20,000L or more

We produce more than 20,000L of raw materials per day and have expanded our advanced production facilities.

We have established two subsidiaries, Keyprogen and Cosmetic Orchestra.

We established Keyprogen, a company specializing in the production technology of useful proteins including growth factors, and Cosmetic Orchestra, a company specializing in medical formulation research and raw material compounding.

Main Technologies

Foundation technology

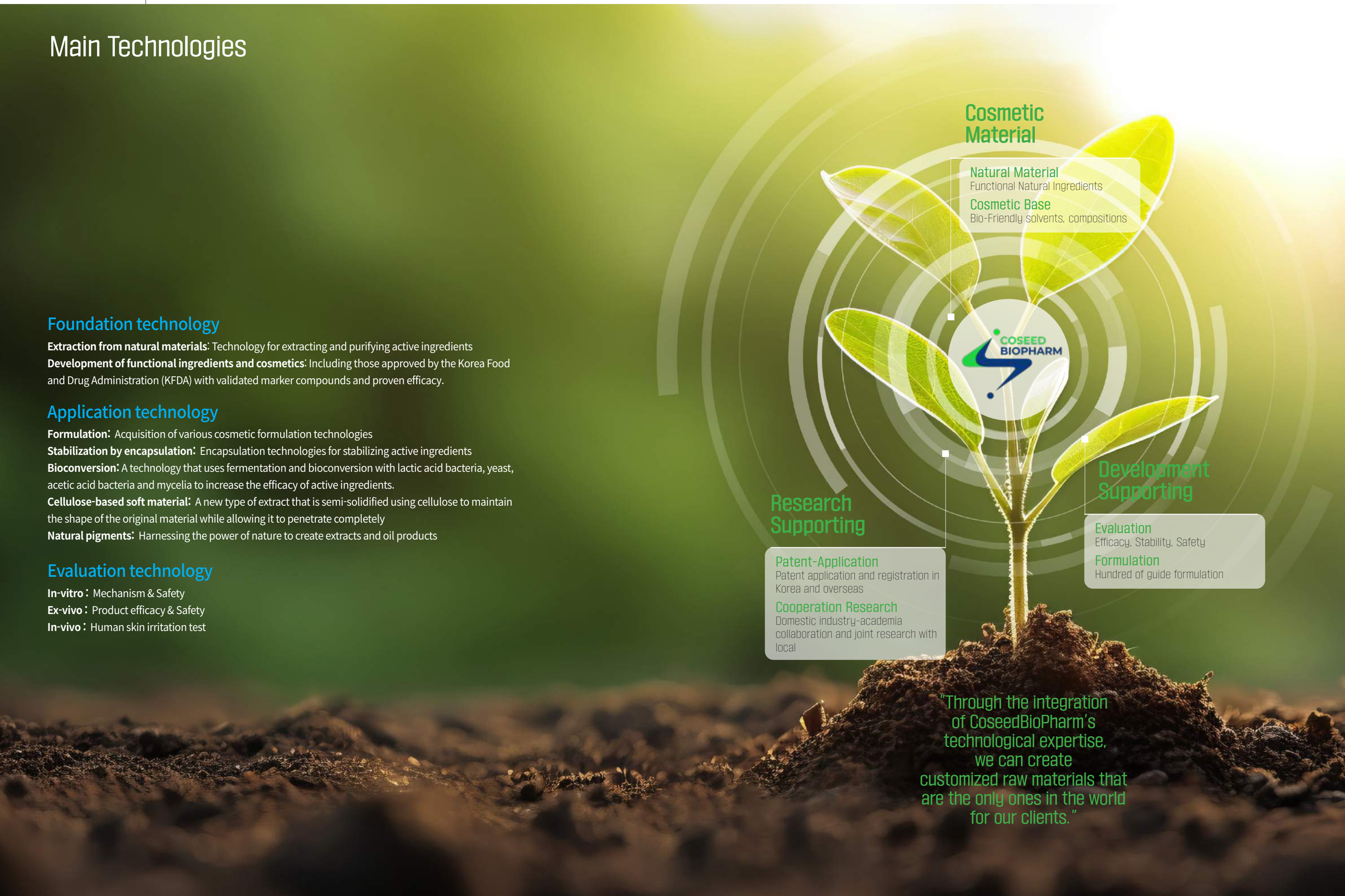
Extraction from natural materials: Technology for extracting and purifying active ingredients
Development of functional ingredients and cosmetics: Including those approved by the Korea Food and Drug Administration (KFDA) with validated marker compounds and proven efficacy.

Application technology

Formulation: Acquisition of various cosmetic formulation technologies
Stabilization by encapsulation: Encapsulation technologies for stabilizing active ingredients
Bioconversion: A technology that uses fermentation and bioconversion with lactic acid bacteria, yeast, acetic acid bacteria and mycelia to increase the efficacy of active ingredients.
Cellulose-based soft material: A new type of extract that is semi-solidified using cellulose to maintain the shape of the original material while allowing it to penetrate completely
Natural pigments: Harnessing the power of nature to create extracts and oil products

Evaluation technology

In-vitro : Mechanism & Safety
Ex-vivo : Product efficacy & Safety
In-vivo : Human skin irritation test



Global Partners

We are Cosmetic Seed





America & Africa

- The USA
- Canada
- Mexico
- South Africa

Europe & CIS

- Russia
- Poland
- Germany
- Türkiye
- Italy
- France

ASIA

- Japan
- China
- Taiwan
- Hong Kong
- Thailand
- Vietnam
- Philippines
- Indonesia
- Singapore
- Malaysia
- Bangladesh

01 CoseedBioPharm Bio-fusion research center

- Natural materials research, evaluation, and analysis
- +82- 43-274-9097

02 Gyeonggi Center

- Seoul-Gyeonggi Sales Office

03 CoseedBioPharm Osong Campus

- Product production and management
- +82- 43-716-0303

04 Keyprogen (subsidiary)

- Development of functional protein materials
- +82-42-861-7188

05 Jeju Branch of CoseedBioPharm

- Research on Jeju natural materials and ex-vivo evaluation
- +82-70-5003-2288

Product List

Beauty Begins Here

01. Snail Series

LS-Mucin	Cell regeneration, Moisturizing	3%~
Golden Shell Mucin	UV Protect	3%~
Black Mucin	Moisturizing, Anti-oxidant	3%~
Sapo-Mucin250+	Cell regeneration, Moisturizing	3%~
Green Tea-Mucin	Anti-aging	3%~
Peerage-Mucin	Cell regeneration, Moisturizing	3%~
Alo-Mucin	Cell regeneration, Moisturizing	3%~

02. H2O Series

Rice Lees Water	Anti-oxidant, Anti-inflammation	5%~
Thyme Micro Oil Water	UV Protection, Anti-oxidant	5%~
Lemongrass Micro Oil Water	Anti-oxidant, Pore tightening	5%~
Damascena Rose Water	Anti-oxidant	5%~

03. Color Oil Series

Jaun Oil	Anti-microbial, Anti-inflammation	3%~
Indigo Oil	Reinforcing skin barrier	3%~
Tamanu Oil	Anti-microbial, Anti-inflammation	3%~
Carrotene Oil	Anti-oxidant	3%~

04. DTC Ingredients

DNA-LAPPA	Hair Loss Control	3%~
DNA-USNEA	Hair Loss Control	3%~

05. For baby

COTTON HUG	Reinforcing skin barrier	3%~
Skin Barrier Enhancer	Reinforcing skin barrier	3%~

06. For women

SG-Omija Ext	Whitening	3%~
BioluminoPeel	Brightening	3%~

07. For men

CS-PROTEOGLYCAN	Skin elasticity	3%~
Linoleic acid 50	Moisturizing, Pore tightening	3%~

08. For teen

CS-Pink Vera	Sebum control	3%~
Pure Aloe Ferox	Sebum control	3%~

09. For Senoir

Jeju Mulpurae 1000	Anti-Wrinkle	3%~
BioTOX-LC	Anti-Wrinkle	3%~

10. For Scalp

AS-Hair Care	Hair loss control	3%~
CS-COWSLIP EXT	Dandruff, Scalp care	3%~

11. New Product

SUSUANA™	Pore tightening	3%~
Phyto Streride	Hair Loss Control	3%~
Violacein	Vegan Colors	0.1%~
Prodigiosin	Vegan Colors	0.1%~

Snail Series

CoseedBioPharm is a leading developer and manufacturer of snail mucin ingredients. The company was the first in Korea to develop a snail mucin filtration technology, and it currently holds a 70% share of the domestic snail mucin market

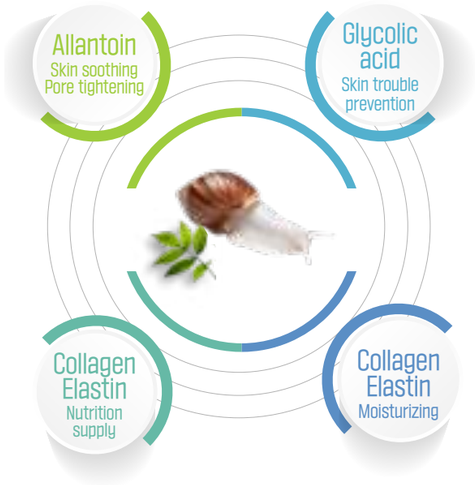


Snail Series

- **Genetic series:** The Achatina fulica snail species can be classified into three types based on their genetic traits:white-rimmed, gold-rimmed, and black-rimmed snails.
- **Feeding series:** Snails have a simple digestive system, so they secrete food components along with mucus. The Snail Fed Series can be expected to have a synergistic effect, from the interaction between the snail's mucus and the key active ingredients present in its diet.

	Genetic series			Feeding series			
							
Product Name	LS-Mucin	Golden Shell Mucin	Black Mucin	Sapo-Mucin250+	Green Tea-Mucin	Peerage-Mucin	Alo-Mucin
Category	Genetic series	Genetic series	Genetic series	Feeding series	Feeding series	Feeding series	Feeding series
Species of snail	Achatina fulica	Achatina fulica	Achatina fulica	Achatina fulica	Achatina fulica	Achatina fulica	Achatina fulica
Feeding	General	General	General	+Red ginseng	+Green tea	+Wine	+Aloe
Growth duration (months)	6 months	6 months	6 months	6 months	6 months	6 months	6 months
Efficacy	Cell regeneration Moisturizing Atopy improvement	Cell regeneration Moisturizing UV protect	Cell regeneration Moisturizing Anti-oxidant	Cell regeneration Moisturizing	Cell regeneration Moisturizing Anti-aging	Cell regeneration Moisturizing	Cell regeneration Moisturizing
Characteristics	Standard type of snail series	To protect itself from the heat of the city,its back shell evolved to be golden in color.	Giant black snails are large adults with a lot of mucus.	Ginseng-fed snail World's first developed patent holder	Snail fed green tea of Boseong, the largest tea plantation in Korea	Snail fed red wine with a high concentration of polyphenols	Snail fed aloe vera having skin soothing effect

Efficacy



What is mucin?

Mucin is a general term for a viscous substance secreted by the exocrine glands of animals. The main component of snail secretion is mucin

What is snail secretion filtrate?

Snail secretion filtrate is a filtrate of the mucus secreted by snails, and it contains skin moisturizing ingredients such as Chondroitin Sulfate (glycosaminoglycan).

H_2O Series

The H_2O Series is a line of ingredients that can be used in cosmetics instead of purified water. By adding beneficial ingredients like minerals and inorganic matter at the raw material stage, Series can distinguish itself within the cosmetics industry and enhance skin benefits

Rice Lees Water



ICID Oryza Sativa (Rice) Lees Water
IECIC ◯
Efficacy Anti-oxidant, Anti-inflammation
Dosage 5%~

- Rice water, the water used to wash rice, has been used as a natural skin brightener since ancient times.
- Rice is a nutritional powerhouse. It's a good source of protein, amino acids, and dietary fiber.
- Upcycled ingredients made from byproducts of rice wine production

Thyme Micro Oil Water



ICID Thymus Vulgaris (Thyme) Oil
IECIC ◯
Efficacy UV Protection, Anti-oxidant
Dosage 5%~

- Functional herb essential oil with water properties made by patented low-temperature micro-extraction process.
- Thyme oil water has up to 50% higher antioxidant effects than traditional thyme oil.

Lemongrass Micro Oil Water



ICID Cymbopogon Citratus Leaf Oil
IECIC ◯
Efficacy Anti-oxidant, Pore tightening
Dosage 5%~

- Functional herb essential oil with water properties made by patented low-temperature micro-extraction process.
- Our clinical results on the pore improvement of lemongrass oil water showed an 11% decrease in the number of pores.

Damascena Rose Water



ICID Rosa Damascena Flower Water
IECIC ◯
Efficacy Anti-oxidant
Dosage 5%~

- Damask roses are primarily grown in Turkey and Bulgaria.
- Rich in oil content compared to regular roses, it is used as a raw material for rose oil.
- Cleopatra is also known to have enjoyed rose baths for skin beauty.

Color Oil Series

Vegetable oils are typically clear, but CoSeedBioPharm Color Oil products are different. They are extracted from the natural color of the raw material itself, so our products have the natural color of the raw material itself. This not only provides skin benefits, but also makes the productive visually distinctive compared to others on the market.



Jaun Oil



ICID	Lithospermum Erythrorhizon Root Extract
IECIC	○
Efficacy	Anti-microbial, Anti-inflammation
Dosage	3%~

- Oil extracted from Lithospermi Radix (lithospermum root). It is characterized by its strong purple color.
- It is a main ingredient of Jawoon-go, a skin ointment. It is effective for anti-inflammation and skin regeneration.

Indigo Oil



ICID	Polygonum Tinctorium Leaf Extract
IECIC	○
Efficacy	Reinforcing skin barrier
Dosage	3%~

- Indigo Oil is a refined oil extracted from the fermented leaves of the indigo plant. It has a blue hue and has been used since ancient times to dye fabrics blue.
- Indigo oil has been reported to have skin benefits, such as strengthening the skin barrier by increasing involucrin (IVL) expression.

Tamanu Oil



ICID	Calophyllum Inophyllum seed oil
IECIC	○
Efficacy	Anti-Inflammation, Anti-microbial
Dosage	3%~

- Tamanu, a traditional skin treatment used by the indigenous people of Vanuatu for centuries.
- Tamanu oil has the effect of increasing the production of GAGs, known as hyaluronic acid, and collagen.

Carrotene Oil



ICID	Carota Sativa (Carrot) Root Extract
IECIC	○
Efficacy	Anti-oxidant
Dosage	3%~

- Carrots are a good source of beta-carotene, an antioxidant that is beneficial for the skin.
- Colorfastness evaluation complete

DTC ingredients

Direct to consumer (DTC) genetic testing allows consumers to test their genes directly, without having to visit a hospital. Because genes are not affected by external environmental factors, It is possible to obtain accurate skin diagnoses.
This can delay skin aging, breakouts from an epigenetics perspective, and regulate protein levels from genetic variants that affect skin and hair, allowing for accurate personalized cosmetic choices.



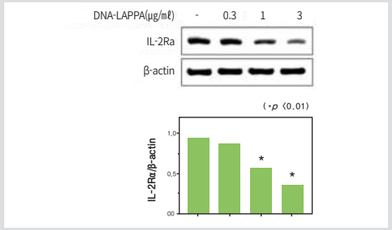
DNA-LAPPA



ICID	Arctium Lappa Seed Extract
IECIC	-
Efficacy	Hair Loss Control
Dosage	3%~

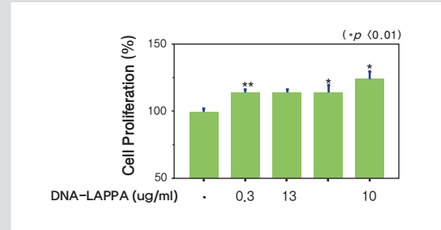
- Burdock seed has hair loss prevention effects because it regulates the proteins expressed by the IL-2Rα gene, which is one of the DTC genes.
- It has also long been used as a folk remedy for inflammation and allergies.

Hair loss control — *In-vitro*



DNA-LAPPA significantly inhibited the protein expressed by the DTC hair gene IL-2RA, indicating its efficacy in alleviating hair loss.

Hair loss control — *In-vitro*



DNA-LAPPA promotes hair growth by increasing the proliferation of dermal papilla cells in a concentration-dependent manner, thereby showing hair loss relief effects.

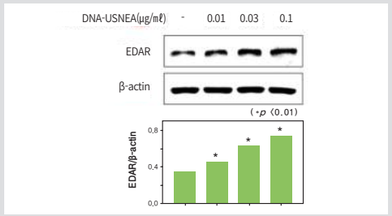
DNA-USNEA



ICID	Usnea Longissima Extract
IECIC	-
Efficacy	Hair Loss Control
Dosage	3%~

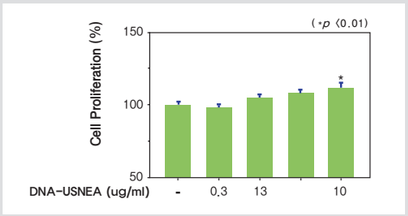
- Usnea diffracta vain is a lichen in the family Usneaceae that has a "fine thread" form.
- DNA-USNEA helps improve hair by regulating the expression of EDAR proteins, which are related to hair thickness, among DTC genes.

Hair loss control — *In-vitro*



DNA-USENEA shows hair improvement efficacy by increasing the protein expressed by the DTC gene Ectodysplasin A receptor (EDAR) in a concentration-dependent manner.

Hair loss control — *In-vitro*



DNA-USNEA exhibits hair improvement efficacy by concentration-dependently increasing the proliferation of dermal papilla cells associated with hair growth.

For Baby

A baby's skin is soft and sensitive, making it easily exposed to various irritants, bacteria, and other external germs. We propose a solution to strengthen the skin barrier, the primary defense of infant skin.



Cotton Hug

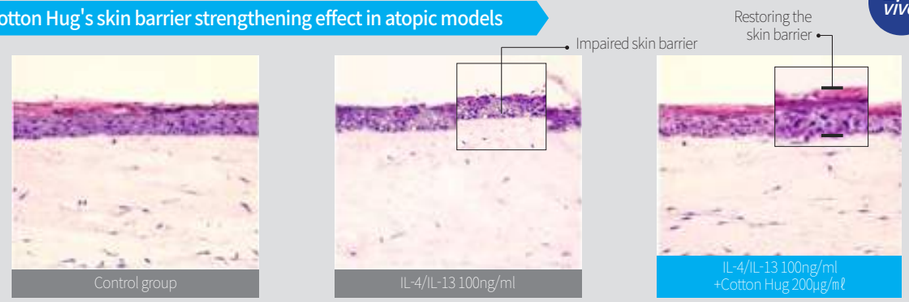


ICID	Gossypium Herbaceum(Cotton) Seed Extract
IECIC	○
Efficacy	Reinforcing Skin Barrier
Dosage	3%~

- A proposal for applying the concept of "Mother's Love", the flower language of cotton, to baby moisturizing products.
- Cotton, once used as a textile material, is reborn as a cosmetic ingredient.
- The benefits of cottonseed Filaggrin for moisturizing and improving atopic skin.

Cotton Hug's skin barrier strengthening effect in atopic models

Ex-vivo



In a study of artificial atopic skin tissue, Cotton Hug was shown to strengthen the skin barrier. Compared to the IL-4/IL-13-treated group, which had a damaged skin barrier, the Cotton Hug-treated group showed a recovery of the skin barrier that had been weakened by IL-4/IL-13.

Skin Barrier Enhancer

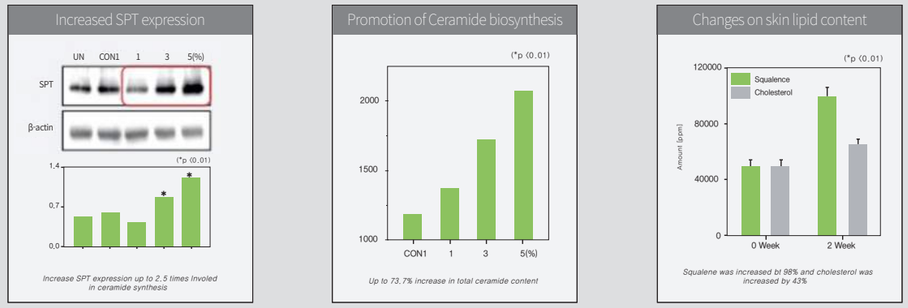


ICID	Eucalyptus Globulus Leaf Extract, Panax Ginseng Root Extract, Chenopodium Quinoa Seed Extract
IECIC	○
Efficacy	Hair Loss Control
Dosage	3%~

- Improvement of skin barrier through regulation of SPT, a key enzyme in ceramide biosynthesis in vivo.
- Triple care with the antibacterial properties of eucalyptus, barrier strengthening of wood-cultivated ginseng , and anti-inflammatory benefits of quinoa.

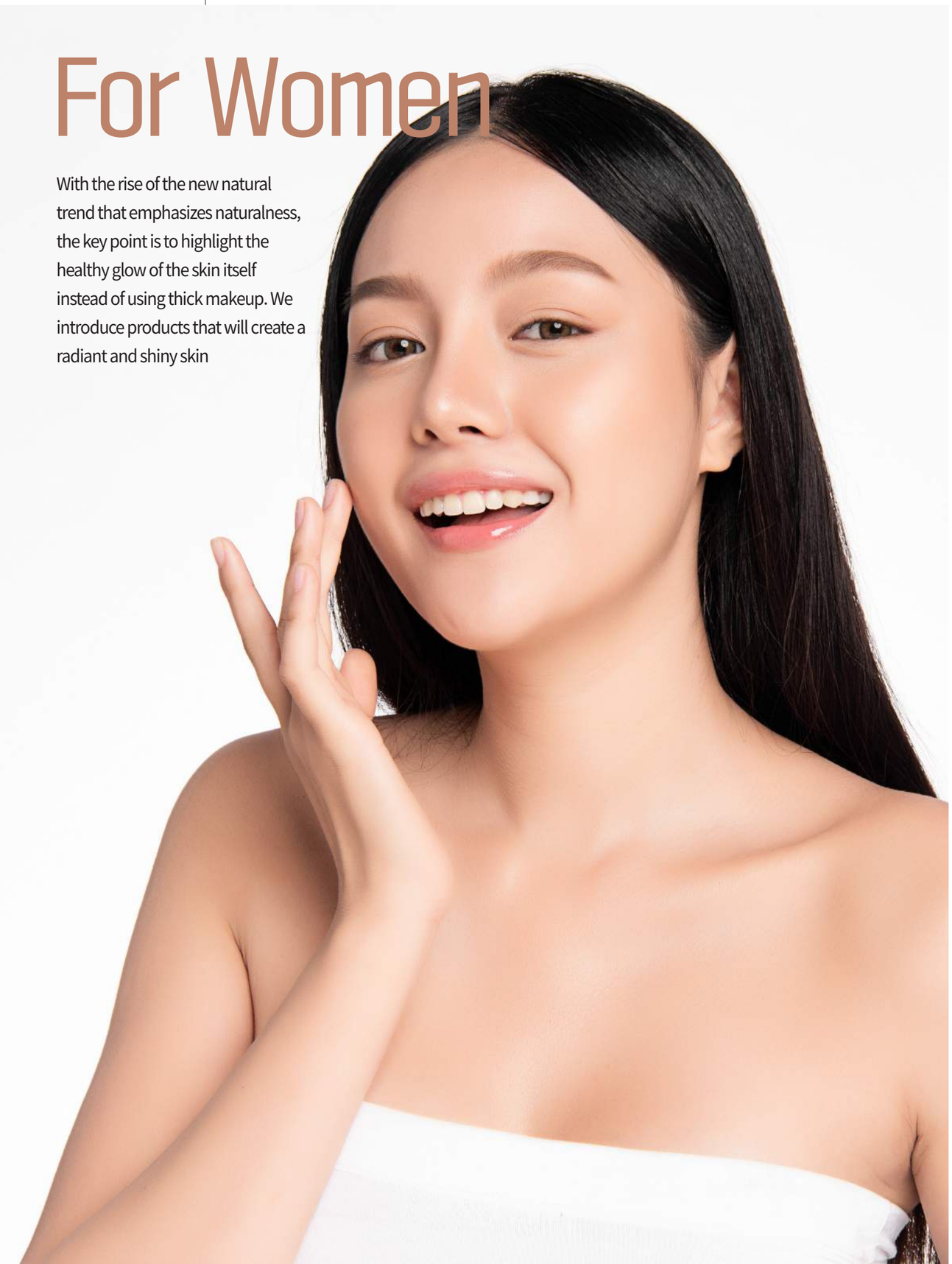
Enhanced skin barrier function by promoting ceramide biosynthesis

In-vitro



For Women

With the rise of the new natural trend that emphasizes naturalness, the key point is to highlight the healthy glow of the skin itself instead of using thick makeup. We introduce products that will create a radiant and shiny skin



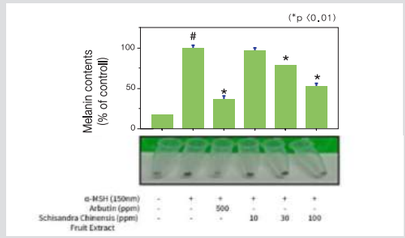
SG-Omija Extract



ICID	Schisandra Chinensis Fruit Extract
IECIC	○
Efficacy	Brightening
Dosage	3%~

- The fruit of schisandra chinensis is a unique berry with a complex flavor that is both sweet and sour, with hints of bitterness, saltiness, and spiciness.
- It contains 700ppm of Gomisin N, an active ingredient with whitening efficacy.
- We own patents and papers.

Whitening effect through melanin production inhibition — *In-vitro*



It inhibits melanin production by up to 57% for excellent whitening results.

Whitening effect through melanin pigment reduction — *In-vivo*



Clinical trial results show a significant decrease in melanin pigmentation in subjects.

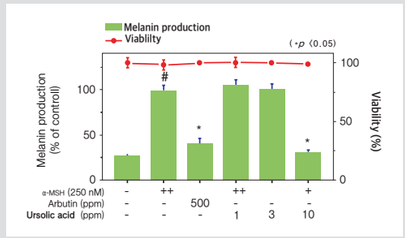
BioluminoPeel



ICID	Pyrus Malus (Apple) Fruit Extract
IECIC	○
Efficacy	Brightening
Dosage	3%~

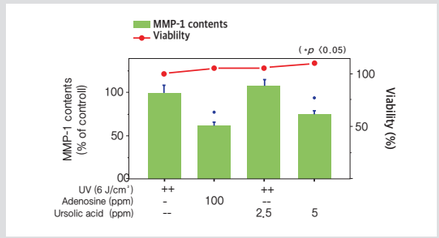
- The apple that the witch gave to Snow White was full of poison. But even though it was deadly, the apple still had a tempting shine. The secret to the apple's beauty is ursolic acid.
- Ursolic acid, which gives apples their shine, can also boost skin radiance.
- Upcycled apple peel is an eco-friendly raw material for new products.

Skin that is free of wrinkles and fine lines (anti-wrinkle) — *In-vitro*



Protection of collagen, which plays a role in skin elasticity, leads to wrinkle prevention, which in turn increases skin reflectance.

Brightening to remove blemishes that hinder glowing skin — *In-vitro*



Steps to fill in the hydration spectrum for radiant skin by suppressing melanin production and removing pigmentation and freckles.

For Men



Men's skin is thicker than women's, but it is also more prone to irritation due to frequent shaving.
We offer soothing and moisturizing solutions for healthy skin.

CS-PROTEOGLYCAN

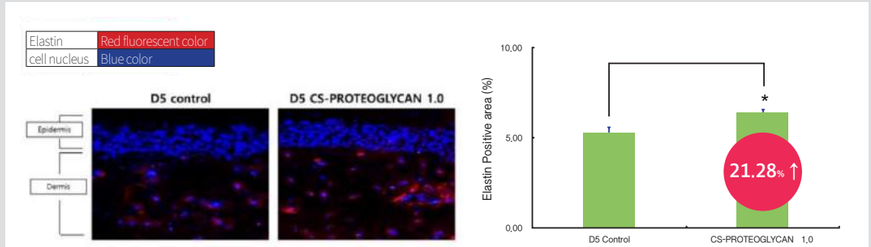


ICID	Soluble Proteoglycan
IECIC	◯
Efficacy	Skin Elasticity
Dosage	3%~

- High-purity proteoglycan isolated from salmon nasal cartilage
- Preventing loss of collagen and hyaluronic acid to boost elasticity and confirming the cell moisturizing effect.
- Secured exclusive development rights for cosmetic applications in Korea

The effect of enhancing elasticity through elastin protein analysis

Ex-vivo



CS-PROTEOGLYCAN helps to strengthen skin elasticity by increasing elastin expression.

Linoleic acid 50

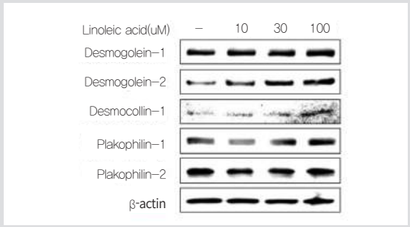


ICID	Helianthus Annuus(Sunflower) Seed Oil
IECIC	◯
Efficacy	Moisturizing, Pore tightening
Dosage	3%~

- Due to active sebum secretion, men's skin requires more thorough cleansing.
- Natural detergent made from upcycled sunflower seeds
- 4-step skincare routine: Removing impurities, Tightening pores, Hydrating, and Strengthening the skin barrier

Inhibition of artificially induced skin flush

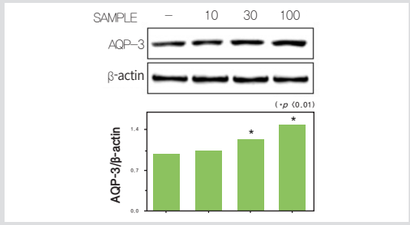
In-vitro



Linoleic acid helps shrink enlarged pores by increasing the expression of connexins, which are involved in cell-to-cell communication.

cell proliferation efficacy

In-vitro



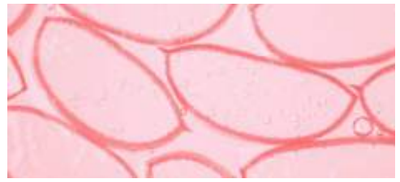
Linoleic acid also helps moisturize the skin by increasing the expression of Aquaporin-3 by about 1.5 times compared to the control group.

For Teen

Adolescence is a time when secondary sexual characteristics appear, hormones are actively secreted, and the sebaceous glands are stimulated, making it easy for acne to develop. We introduce some ingredients that can help with teenage acne skin care.



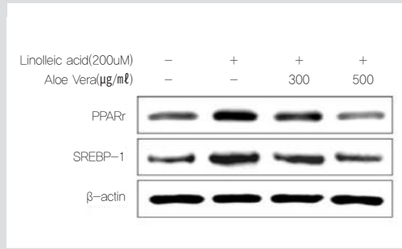
CS-Pink Vera

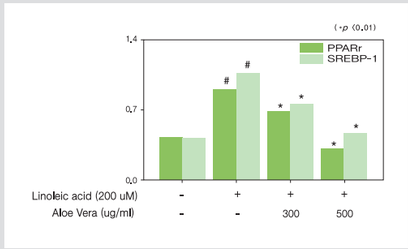


ICID	Aloe Barbadensis Leaf Juice
IECIC	○
Efficacy	Sebum Control
Dosage	3%~

- Pink Aloe is a natural wonder that glows pink to survive in extreme environments.
- Emodin, the main component of pink discoloration, has excellent skin calming effects.
- Pink Aloe Powder is manufactured using our own low-temperature processing technology to preserve nutrients.

Sebum Control effect *In-vitro*





Helping to suppress excessive sebum secretion by inhibiting the expression of PPARr and SREBP-1, proteins involved in sebum production, by up to respectively 100% and 92.49% or more at 500 ug/ml concentrations.

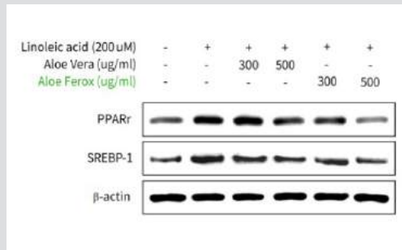
Pure Aloe Ferox

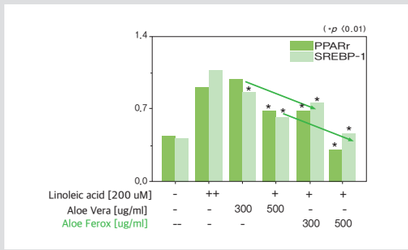


ICID	Aloe Ferox Leaf Extract
IECIC	○
Efficacy	Sebum Control
Dosage	3%~

- Cape Aloe naturally grown in Cape Town, South Africa
- Ingredients with the highest Environmental Working Group (EWG) safety rating of 1 that are gentle on the skin (Aloe vera is rated 2)
- In collaboration with a South African aloe specialist company, we are fairly importing Convention on International Trade in Endangered Species of Wild Flora and Fauna (CITES)-protected species.

Sebum inhibition effect *In-vitro*





Helping to suppress excessive sebum secretion by inhibiting the expression of PPARr and SREBP-1, proteins involved in sebum production, by up to respectively 65% and 125% or more at 500 ug/ml concentrations.

For Senior

Wrinkles are a symbol of aging caused by decreased collagen and hyaluronic acid production, as well as thinning of the dermis. We introduce some wrinkle care ingredients that will help restore elasticity to your skin.

Jeju Mulpurae 1000

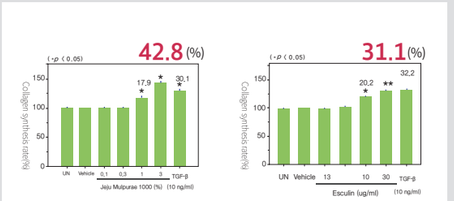


ICID	Fraxinus Rhynchophylla Extract
IECIC	◯
Efficacy	Anti-Wrinkle
Dosage	3%~

- A mysterious Mulpurae tree that turns water blue when it is submerged
- Coumarins, which give off a blue light, have various skin benefits.
- Jeju Mulpurae tree, grown on the eco-friendly island of Jeju, a UNESCO World Natural Heritage Site

Promote collagen synthesis

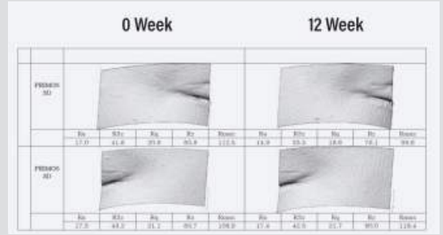
In-vitro



Both Jeju Mulpurae and its active ingredient, Esculin, have been confirmed to be effective in preventing wrinkles by significantly increasing collagen synthesis.

Anti-wrinkle

In-vivo



Jeju Mulpurae 3% formulation showed statistically significant improvement in wrinkles compared to the control group, after 12 weeks of application.

BioTOX-LC

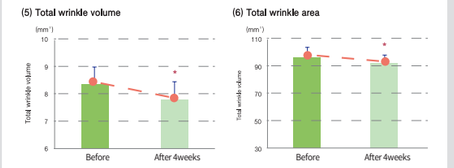


ICID	sr-(Oligopeptide-91 Clostridium Botulinum Polypeptide-1
IECIC	◯
Efficacy	Anti-Wrinkle
Dosage	3%~

- BioTOX-LC is a 'topical Botox' developed for use in the cosmetics industry instead of the toxin botulinum toxin (Botox). It is safe because it is non-toxic.
- Liposome technology applied with a size of 140-150nm to easily pass through the gaps between skin cells.

Promote collagen synthesis

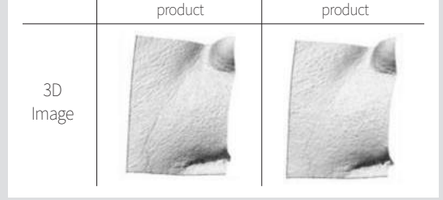
In-vitro



BioTOX-LC showed improvement in all areas of nasolabial folds in clinical trials, with no adverse skin reactions observed in any of the subjects.

Nasolabial folds improvement

In-vivo



For Scalp

Various factors can cause the scalp to build up dead skin cells and sebum, which can lead to dandruff and itching. These conditions can then contribute to hair loss.
We offer scalp-care solutions for dandruff-care and hair loss relief.

AS-Hair Care

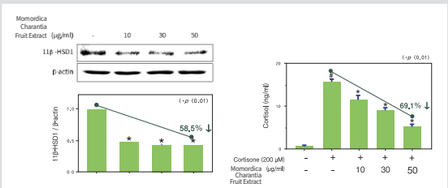


ICID Momordica Charantia Fruit Extract
IECIC ○
Efficacy Hair Loss Control
Dosage 3%~

- When you are stressed, your body releases the stress hormone cortisol. This can lead to hair loss.
- Momordica charantia fruit can help prevent hair loss caused by stress, by suppressing cortisol production.
- Proliferation of dermal papilla cells helps improve hair loss.

Suppressing cortisol production

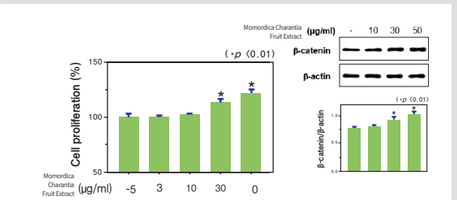
In-vitro



A study has found that the Momordica charantia fruit extract can inhibit the expression of 11β-HSD1, an enzyme that produces cortisol, and the production of cortisol, a stress hormone.

Hair loss control efficacy

In-vitro



The Momordica charantia fruit extract promotes hair growth in a concentration-dependent manner by increasing the proliferation of dermal papilla cells and the expression of β-catenin, which is involved in scalp cell regeneration to help with hair loss relief.

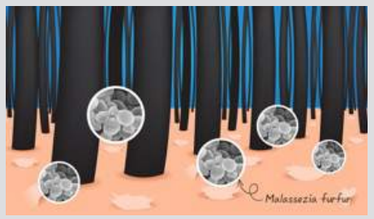
CS-COWSLIP EXT



ICID Primula Veris Extract
IECIC ○
Efficacy Dandruff, Scalp Care
Dosage 3%~

- Malassezia is a yeast that normally lives on the scalp. However, when it overgrows, it can cause dandruff and seborrheic dermatitis.
- Primula veris, also known as Key Flower due to its resemblance to a bunch of keys, has been shown to have antimicrobial properties against the dandruff-causing fungus Malassezia.

Anti-Microbial Activity





sample		Clear zone (mm)
		1
Cowslip	8%	30
	4%	26
	2%	25
	1%	22

Cowslip has been shown to have excellent antibacterial activity against Malassezia furfur.
(A larger clear zone diameter means greater effectiveness.)



New Product

CoseedBioPharm continuously develops new products by predicting future trends each year, and continuously expands its product groups.

SUSUANA™



ICID	Sorghum Bicolor Leaf/Stem Extract, Bixa Orellana Seed Extract
IECIC	◯
Efficacy	Anti-Wrinkle
Dosage	3%~

- Enlarged horizontal pores caused by sebum overproduction and elongated vertical pores caused by decreased elasticity.
- Confirmed the efficacy of sebum control, pore tightening, skin elasticity, and inflammation care for pore care.

Phyto Steride



ICID	Physalis Alkekengi Fruit Extract
IECIC	◯
Efficacy	Anti-Wrinkle
Dosage	3%~

- The Chinese lantern plant contains physalin, a plant-based steroid similar to the ingredients in hair loss treatments.
- Safe, natural hair growth ingredients without the side effects of hair loss treatments
- Completed patent application

Violacein



ICID	Registration in progress
IECIC	Registration in progress
Efficacy	Vegan Colors
Dosage	0.1%~

- Oil-soluble pigment extracted from *Chromobacterium violaceum* strain
- Purple pigments can help make the products visually distinctive.
- Possible to become vegan certified

Prodigiosin



ICID	Registration in progress
IECIC	Registration in progress
Efficacy	Vegan Colors
Dosage	0.1%~

- Oil-soluble pigment extracted from *Serratia marcescens* strain
- Red pigments can help make the products visually distinctive.
- Possible to become vegan certified