

식물유래엑소좀

# Plant Callus Exosome

PhytoCell Tri-Complex

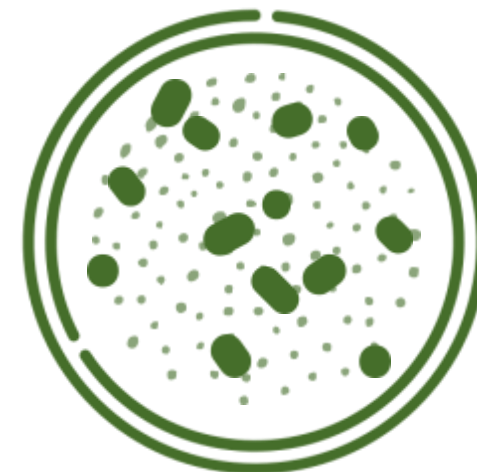


DASAN C&Tech's upgraded natural origin and skin-friendly technology

## "Plant-derived Exosome"

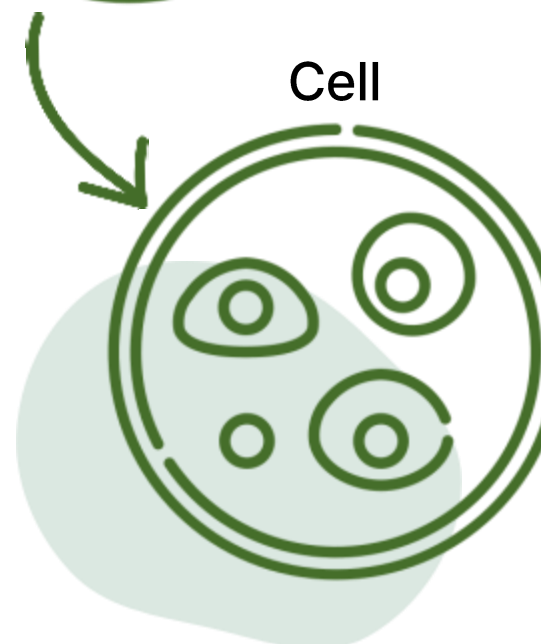
### Reasons for using plant-derived exosomes

Plant-derived exosome



#### ■ Raw materials with intact nutritional content

Unlike existing plant extracts that are extracted by applying heat, exosomes are made by processing the raw material as is, so the various nutrients are preserved without being destroyed and work on the skin.



Cell

#### ■ Increased absorption as a skin-friendly raw materials

Unlike traditional raw materials that struggle to pass through cell membranes and act on them, exosomes have a phospholipid bilayer structure similar to cell membranes, enhancing their penetration and absorption capabilities.

# The skin vitality delivered by "PhytoCELL Tri-Complex"

The perfect harmony of "Lavender, Edelweiss & Rock Samphire."

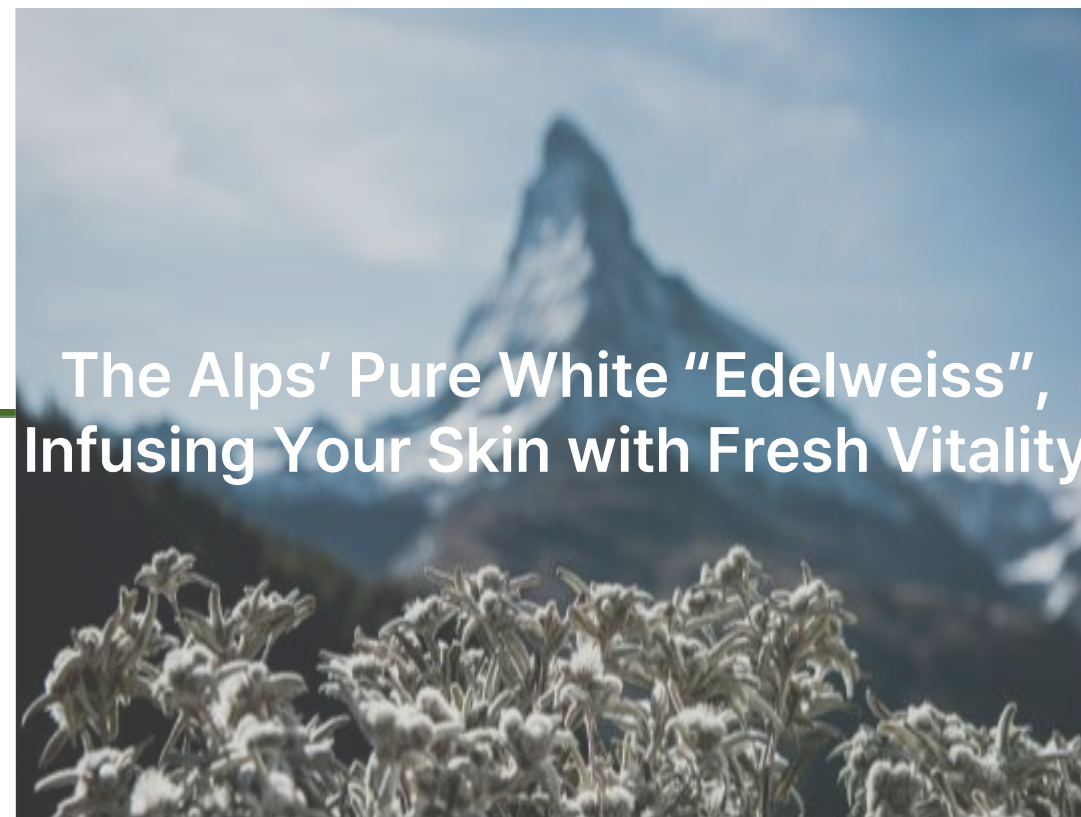
#Active #Supply #Protection

#3-STEP Skin Radiance Cycling Science; for the healthy beauty of skin that glows on its own with strong and vital power.



Fragrant Mediterranean "Lavender",  
Your Skin's Moment of Rest

- It helps increase skin elasticity and improve the appearance of wrinkles.
- It helps soothe skin irritation and care for sensitive skin.
- It helps reduce skin imperfections and minor irritations.
- It protects the skin from damage caused by harmful factors with its antioxidant properties.



The Alps' Pure White "Edelweiss",  
Infusing Your Skin with Fresh Vitality

- It protects the skin from damage caused by oxidative stress and external harmful factors.
- It helps maintain natural moisture balance by providing hydration and moisture to the skin.
- It helps reduce skin aging, such as wrinkles.
- It can provide mild sun protection for the skin.



Resilient Skin Powered by "Rock  
Samphire", Grown in Coastal Crag

- It protects the skin from damage caused by oxidative stress and external harmful factors.
- It provides hydration and moisture to the skin, improving elasticity and overall texture.
- It helps reduce skin aging, such as wrinkles.
- It helps soothe irritated skin with its anti-inflammatory effects

# Skin relaxation gifted by fragrant "Lavender" from the Mediterranean

- It increases skin elasticity and helps improve wrinkles.
- It helps soothe skin irritation and care for sensitive skin.
- It helps relieve skin blemishes or minor irritations.
- It has antioxidant properties and protects the skin from damage caused by external harmful environments.

- Scientific name : *Lavandula angustifolia*
- Export information : Available for export to China and Japan
- Package Size : 1kg

## KEY POINT

#Anti-oxidation #Skin soothing #Moisturizing #Anti-aging #Prevention of hair loss

Elasticity is added to the skin with the mysterious power of Lavender

Lavender exosomes improve skin elasticity and promote cell regeneration, helping to maintain healthy and elastic skin.

Protect and keep your skin healthy with the soothing effect of Lavender

Lavender exosomes have an excellent anti-inflammatory effect, soothing irritated skin and strengthening the skin barrier to protect the skin from external irritation.

Brightens and moisturizes your skin with the clear scent of Lavender

Lavender exosomes suppress melanin production and brighten the skin evenly, and rich moisturizing ingredients keep the skin moist, creating a glossy complexion.

# DASAN C&Tech's upgraded natural origin and skin-friendly technology

## "Lavender Exosome"

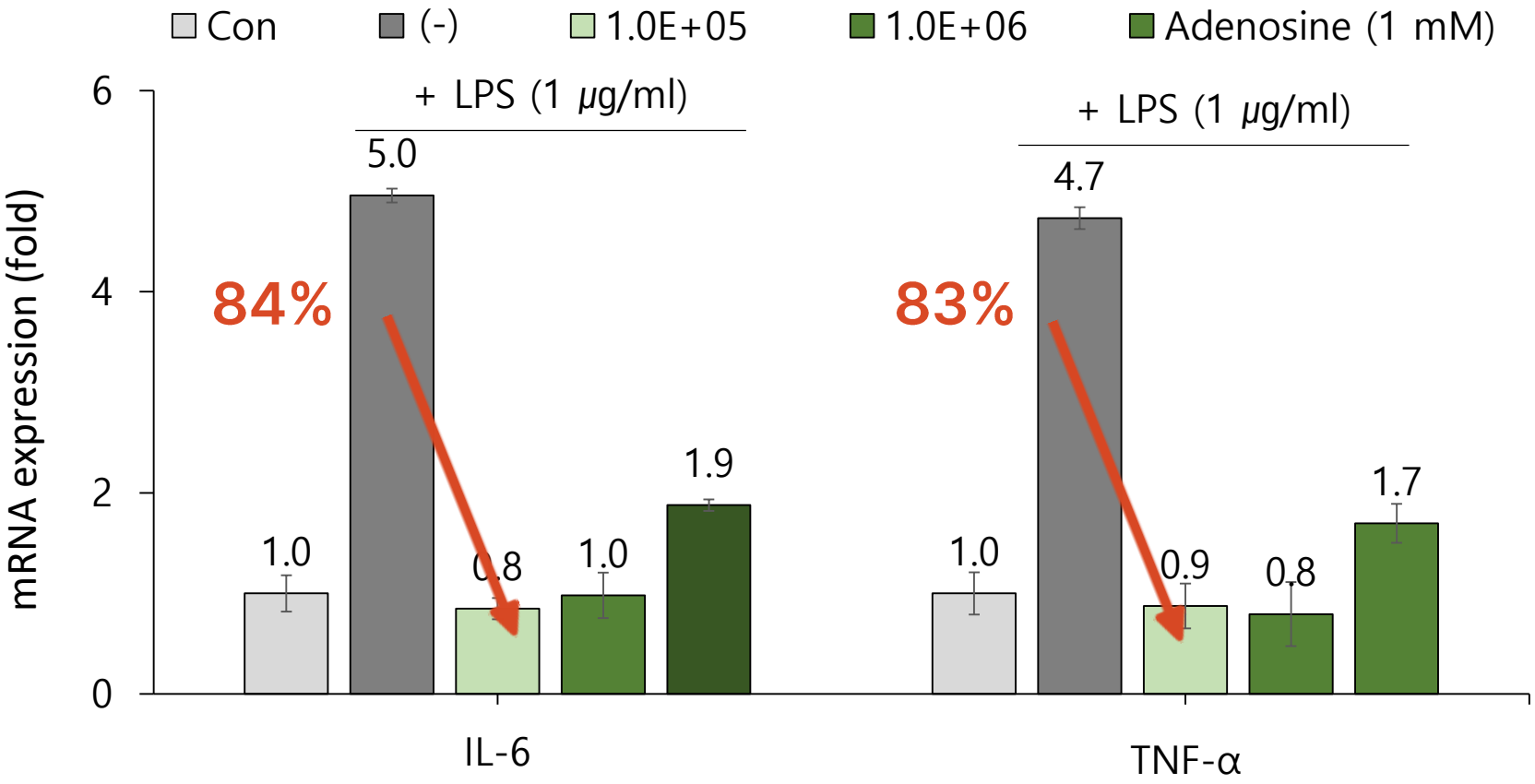
INCI : Lavandula Angustifolia (Lavender) Callus Extracellular Vesicles

### Cellular efficacy of Lavender exosome

- Anti-inflammation, Cell regeneration, Improvement of skin elasticity, Moisturizing-

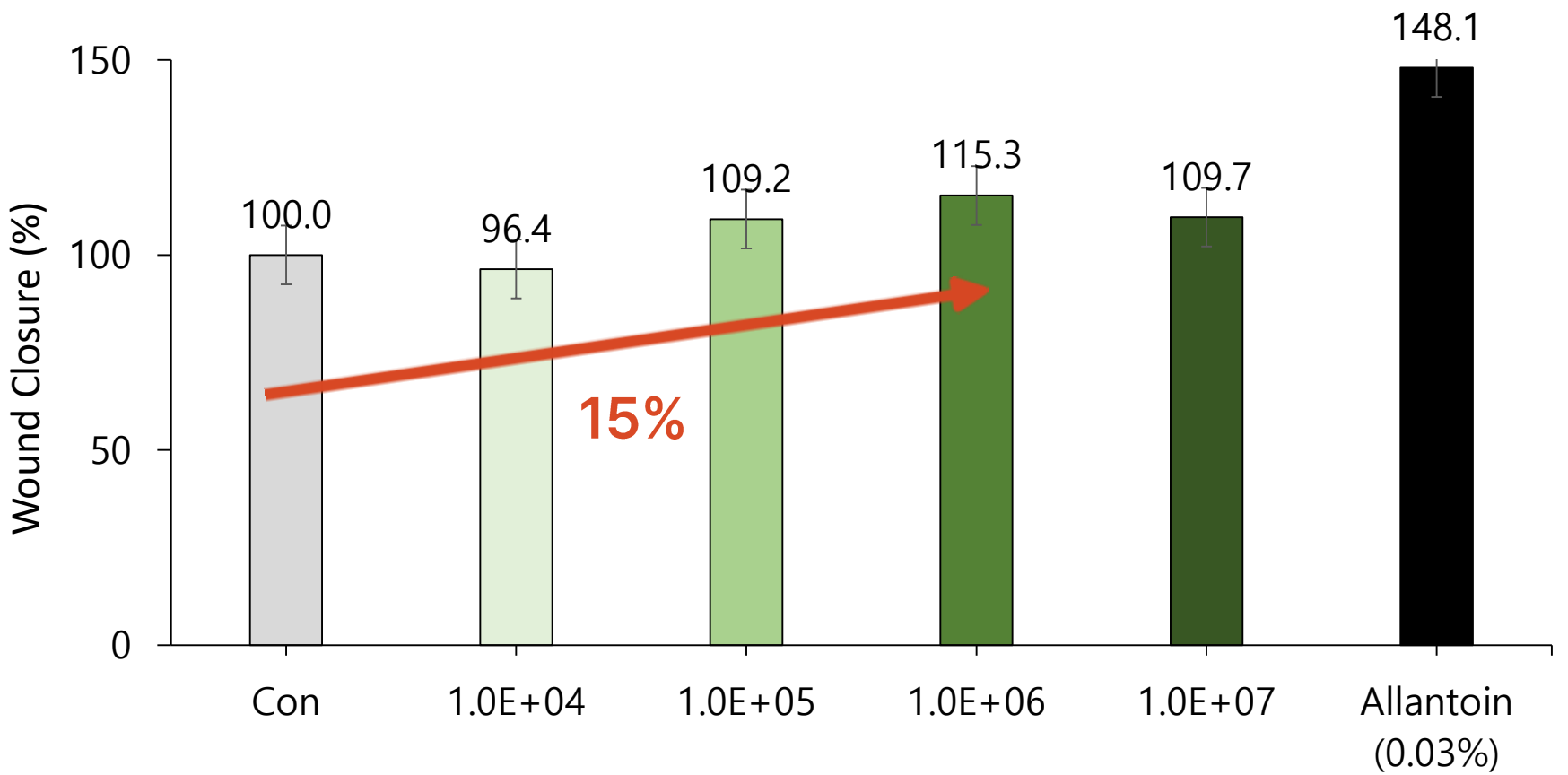
#### ■ Anti-inflammation

Lavender exosomes soothe the skin by reducing the expression of inflammation-causing genes (IL-6, TNF- $\alpha$ ) by up to 84%.



#### ■ Cell regeneration

Treatment of wounded cells with Lavender exosomes increased wound recovery by 15%.



DASAN C&Tech's upgraded natural origin and skin-friendly technology

**"Lavender Exosome"**

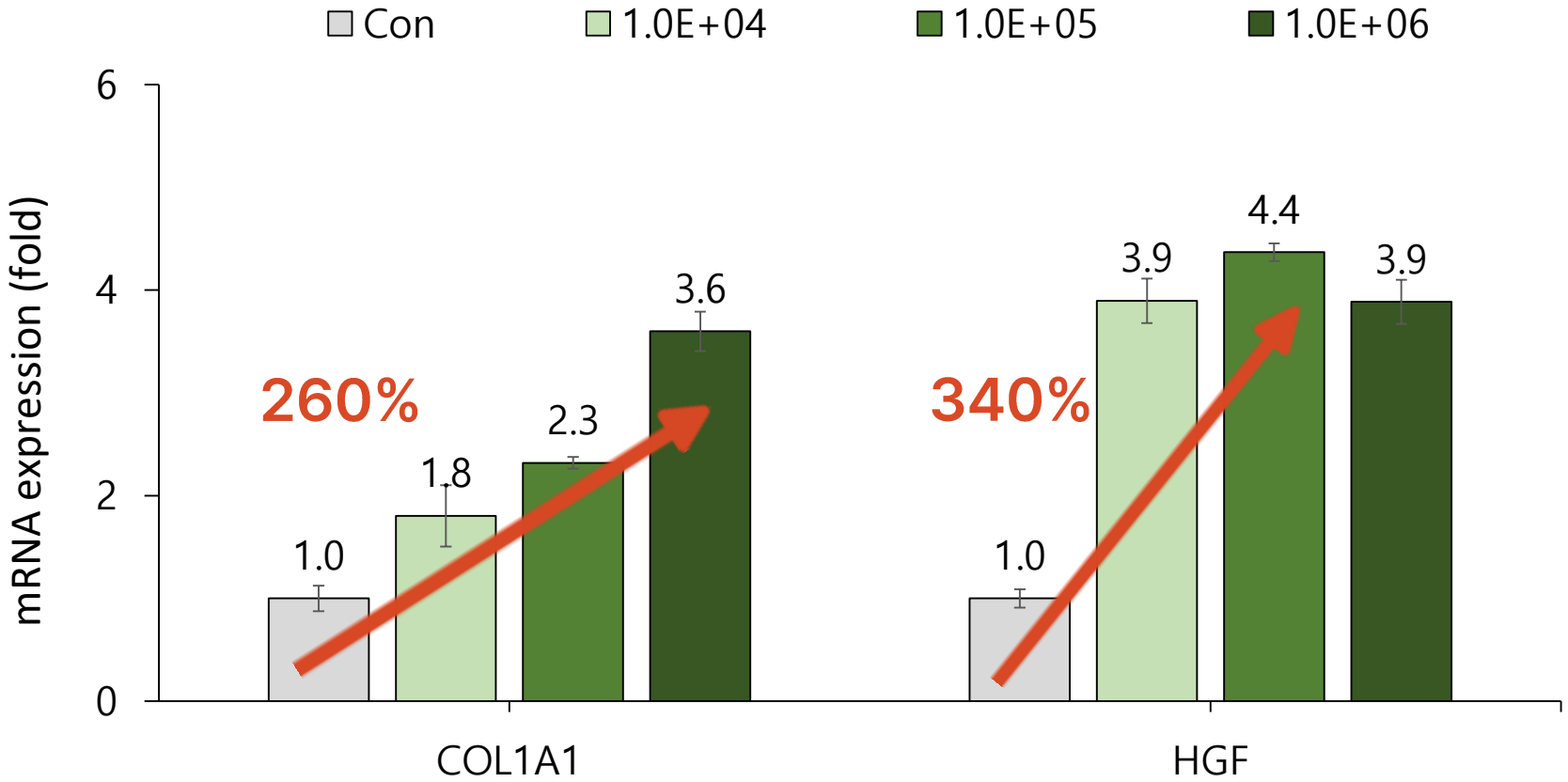
INCI : Lavandula Angustifolia (Lavender) Callus Extracellular Vesicles

**Cellular efficacy of Lavender exosome**

- Anti-inflammation, Cell regeneration, Improvement of skin elasticity, Moisturizing -

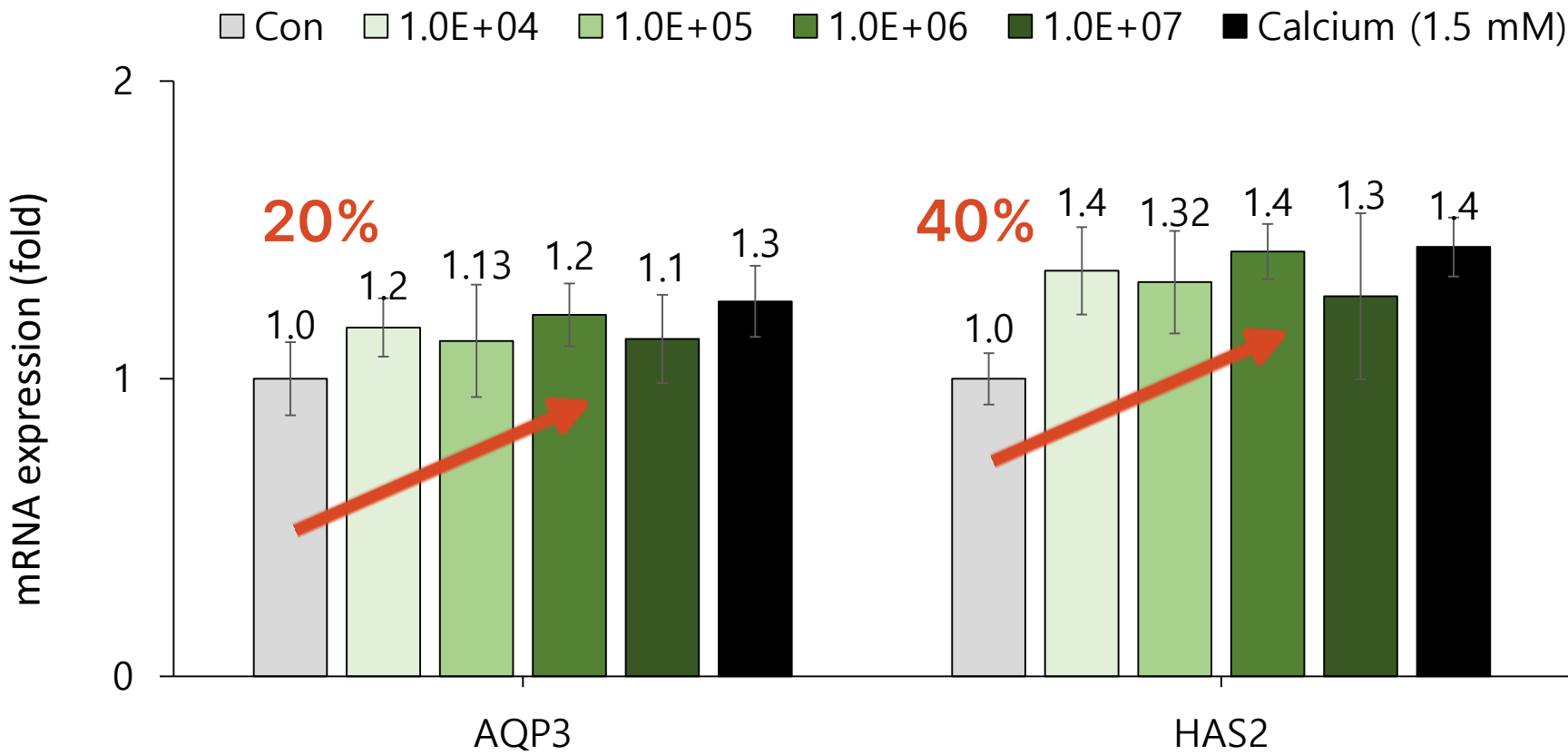
**Improvement of skin elasticity**

Lavender exosomes increases skin elasticity by increasing the expression of collagen synthesis gene (COL1A1, HGF) by up to 340%.



**Moisturizing**

Lavender exosomes increase the expression of skin moisturizing genes (AQP3, HAS-2) by up to 40%, helping to absorb moisture from the outside of cells into the inside or preserve moisture.

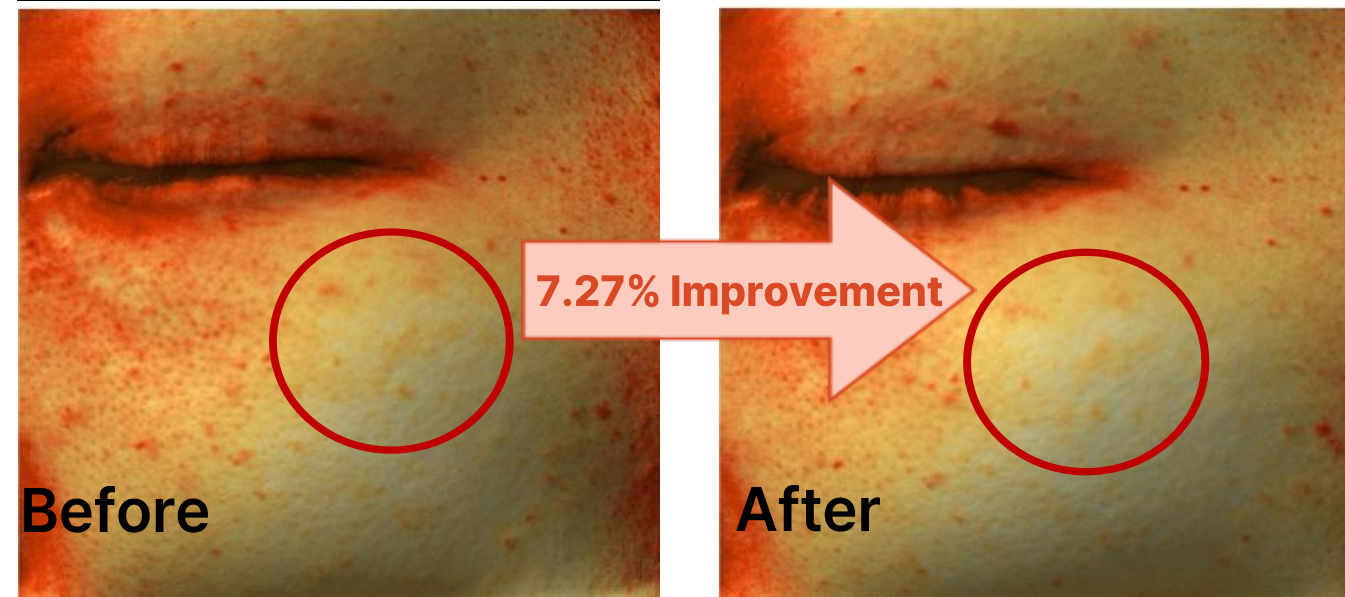


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# "Lavender Exosome"

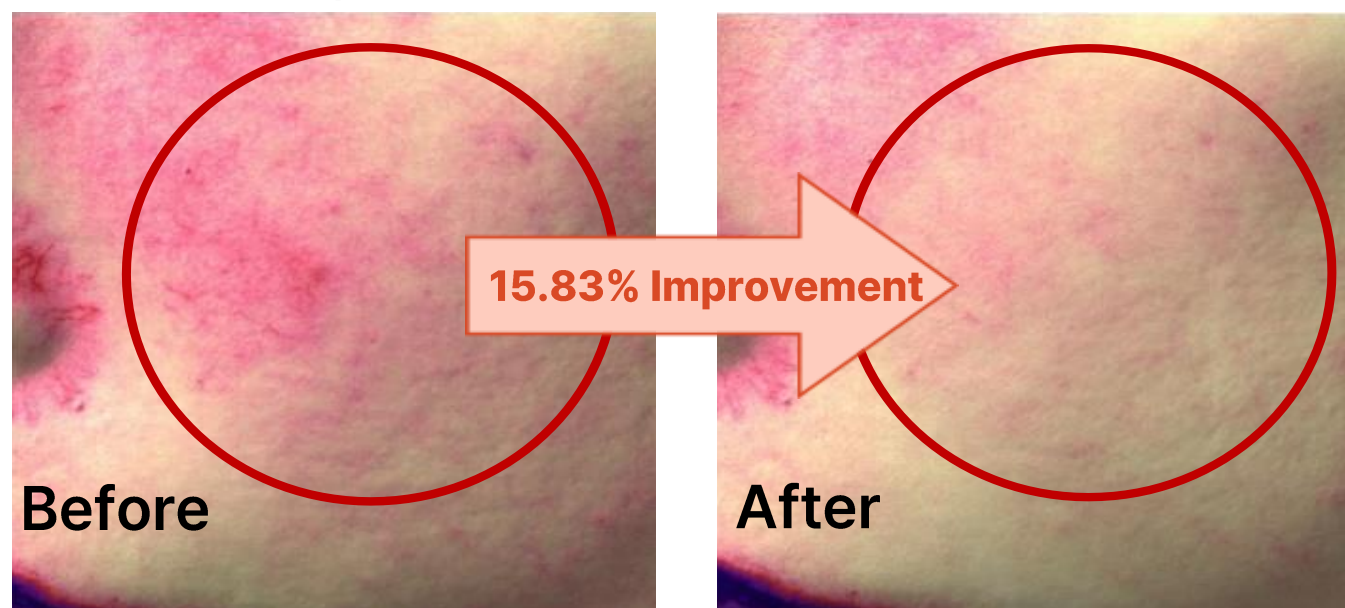
## Melanin improvement effect after 4 weeks of use

\*Serum containing 4% Lavender Exosomes



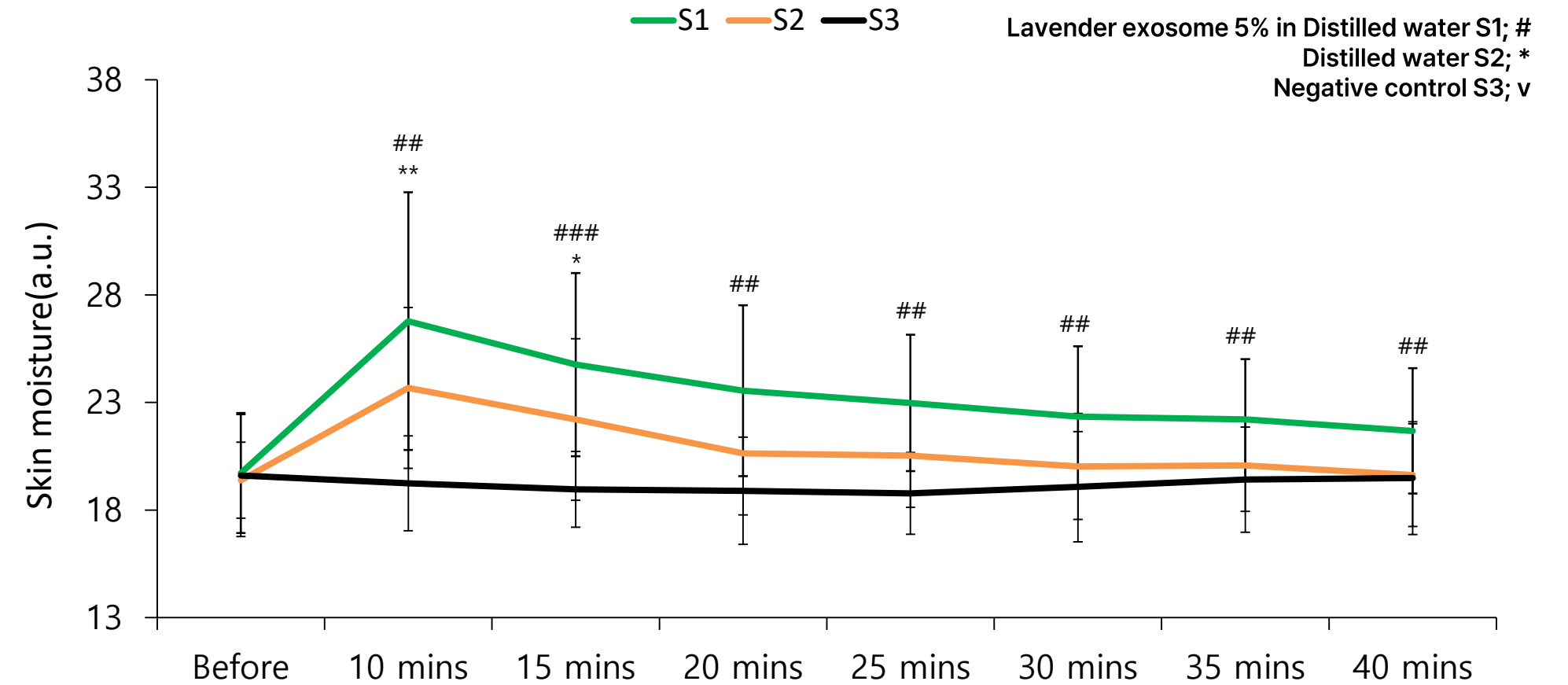
## Redness improvement after 4 weeks of use

\*Serum containing 4% Lavender Exosomes



## Moisture content measurement

\* 5% Lavender Exosomes in Distilled Water



The skin moisture increases temporarily after 10 minutes of applying the distilled water, but decreases quickly and significantly. In contrast, the skin moisture with 5% Lavender exosome increases even more significantly after 10 minutes of application and remains higher than the initial level over time, suggesting 5% Lavender exosome contributes to improved moisture retention.

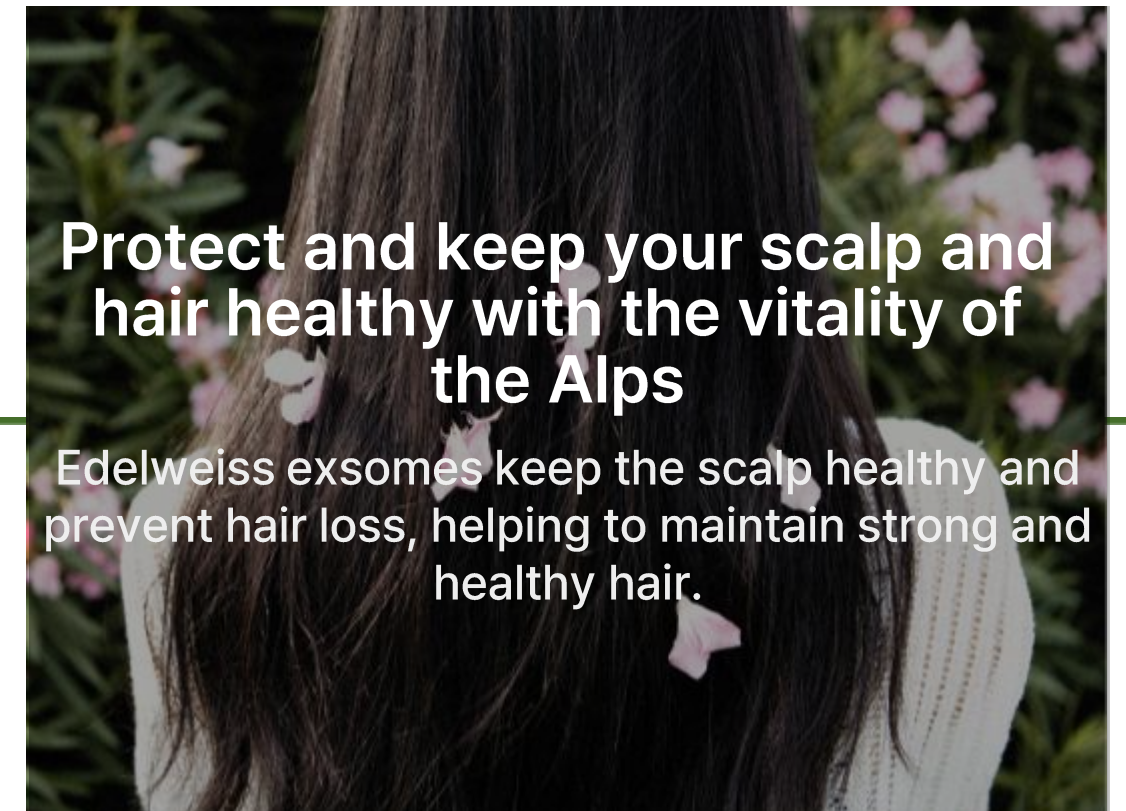
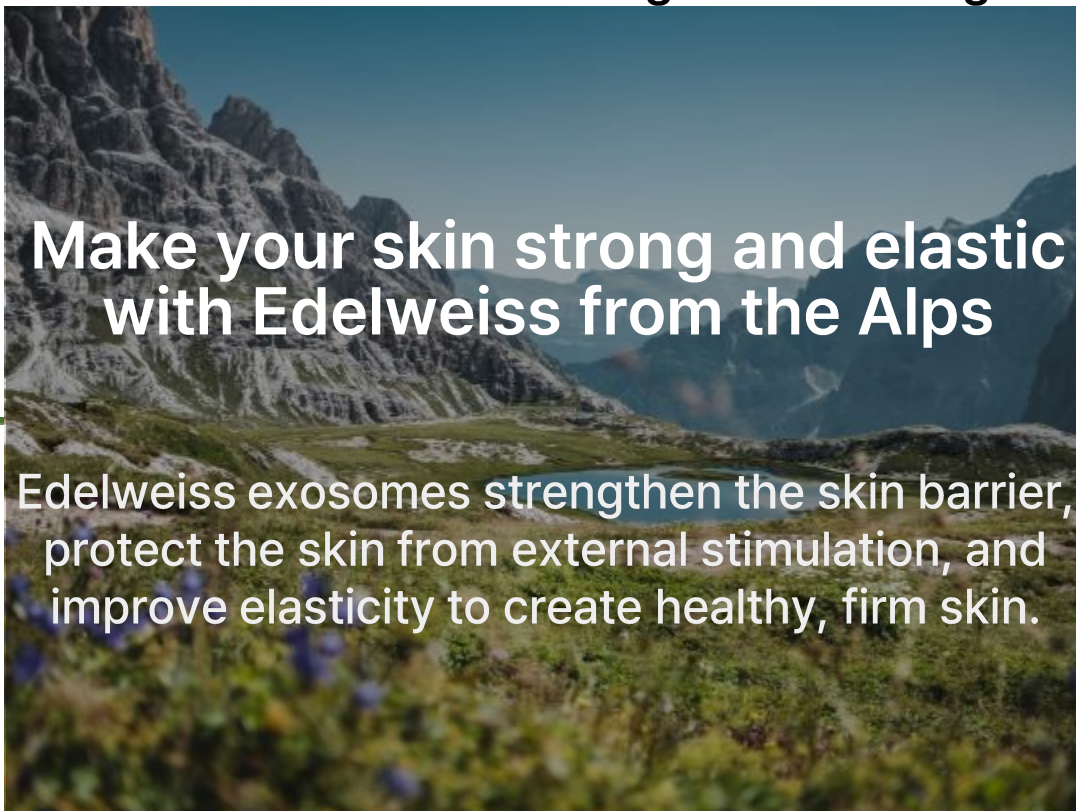
# Fresh vitality delivered by Edelweiss, the pure white flower of the Alps

- It protects skin from damage caused by oxidative stress and external harmful substances.
- It maintains natural moisture balance by moisturizing and supplying moisture to the skin.
- It helps reduce skin aging, such as wrinkles.
- It can provide mild UV protection to the skin.

- Scientific name : *Leontopodium alpinum*
- Export information : Available for export to China and Japan
- Package size : 1kg

## KEY POINT

#Antioxidation #Skin soothing #Moisturizing #Anti-aging #Prevention of hair loss



DASAN C&Tech's upgraded natural origin and skin-friendly technology

**"Edelweiss Exosome"**

INCI : Leontopodium Alpinum Callus Extracellular Vesicles

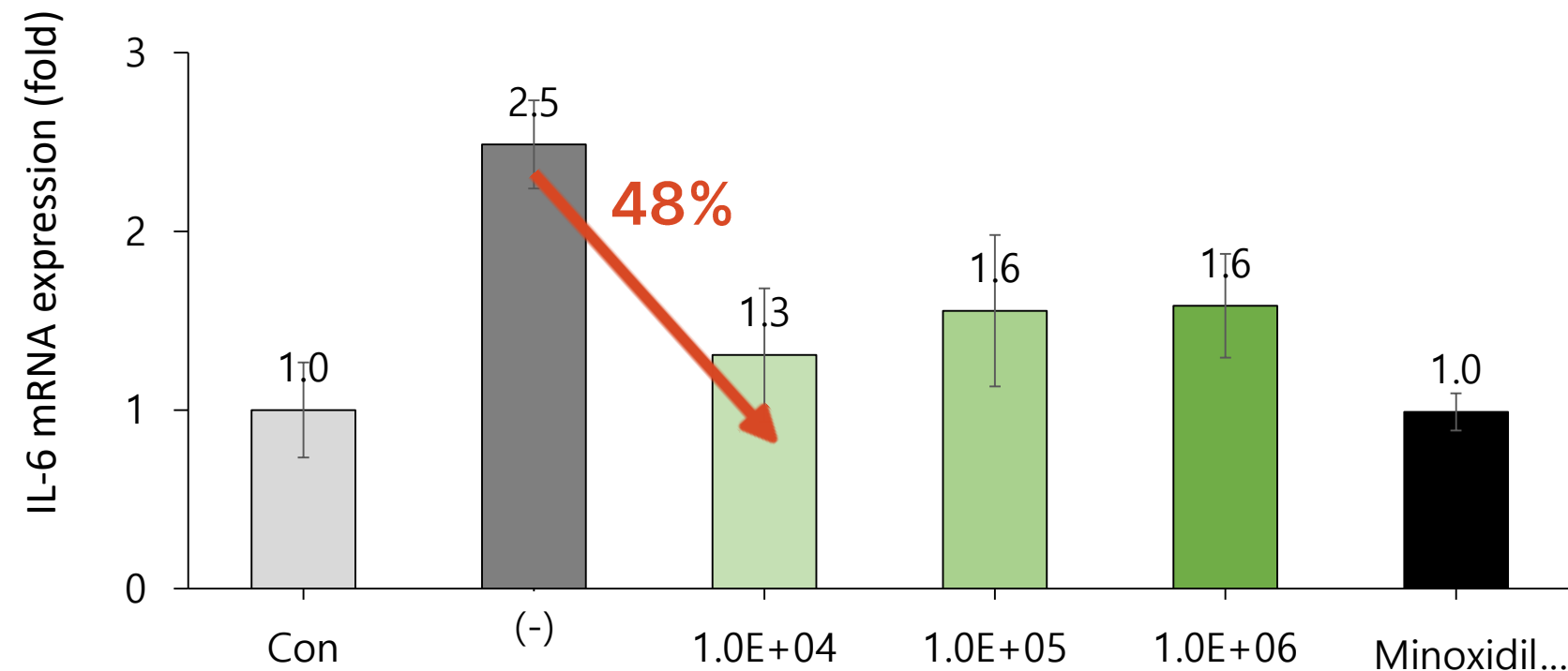
**Cellular efficacy of Edelweiss Exosome**

- hair loss prevention, Skin barrier reinforcement, Anti-inflammation, Improvement of skin elasticity -

■ **Anti-inflammation to dermal papilla cells**

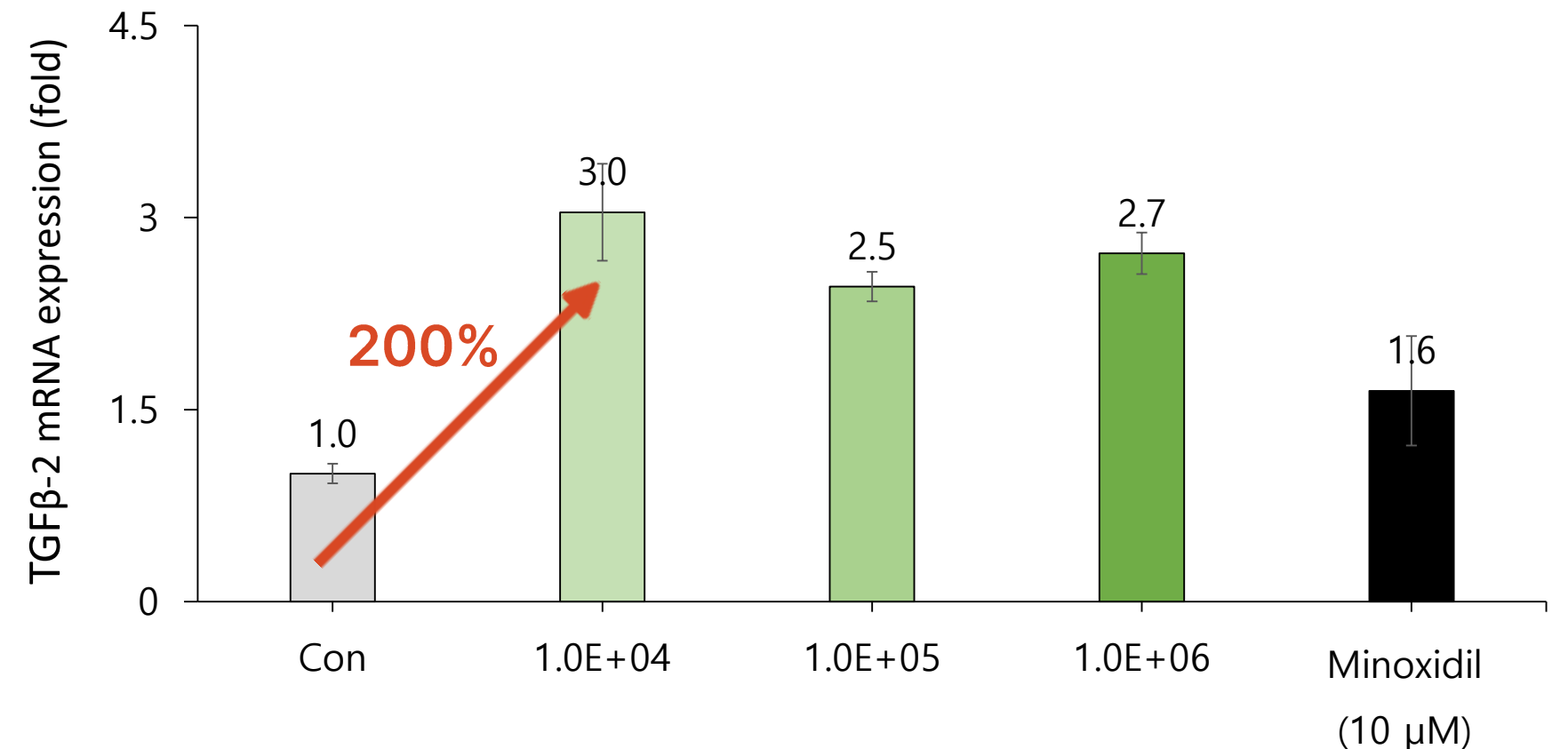
Edelweiss exosomes reduces the activity of genes (IL-6) that cause inflammation in dermal papilla cells by 48% and protects the scalp and hair from ultraviolet rays.

+ UVB (10 mJ/cm<sup>2</sup>)



■ **Proliferation of dermal papilla cells**

Edelweiss exosomes increases the gene expression (TGFβ-2) of hair papilla cells by 200%, improving the cell proliferation ability and making hair healthy.



DASAN C&Tech's upgraded natural origin and skin-friendly technology

**"Edelweiss Exosome"**

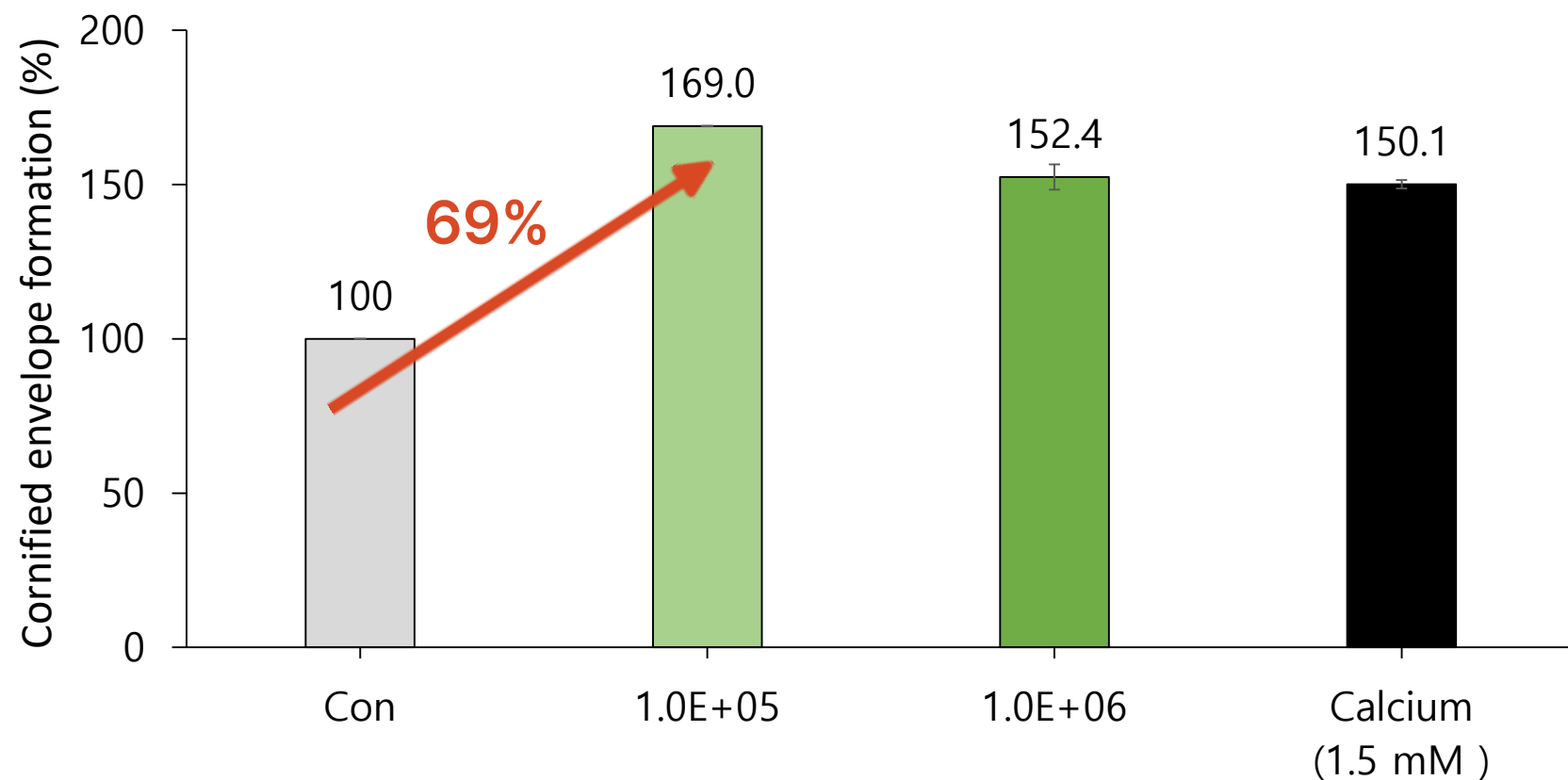
INCI : Leontopodium Alpinum Callus Extracellular Vesicles

**Cellular efficacy of Edelweiss Exosome**

- hair loss prevention, Skin barrier reinforcement, Anti-inflammation, Improvement of skin elasticity -

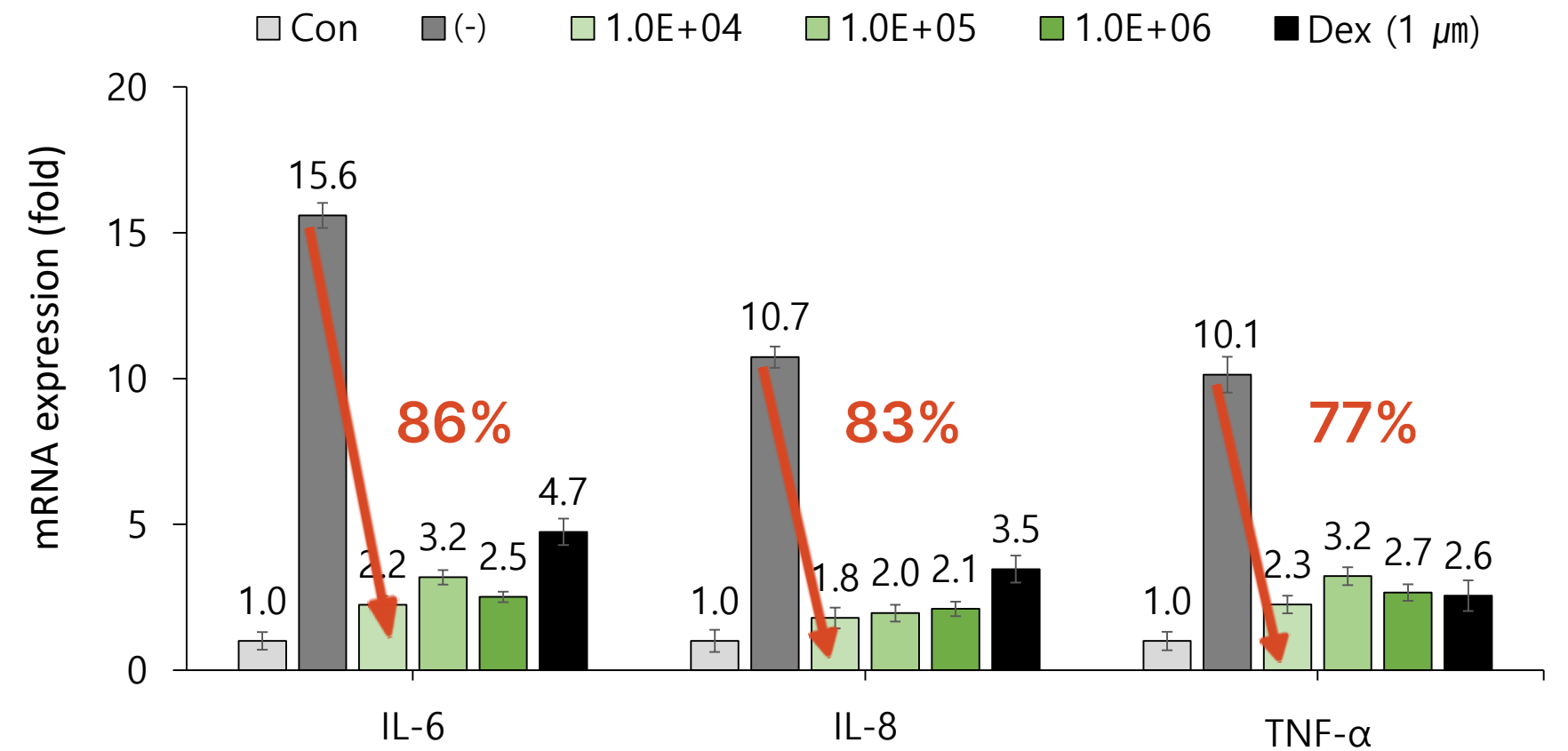
■ Skin barrier reinforcement

Edelweiss exosomes increases the expression of skin barrier proteins by up to 69%, protecting the skin and preventing moisture loss.



■ Anti-inflammation

Edelweiss exosomes soothe the skin by reducing the expression of inflammatory genes (IL-6, IL-8, TNF-α) by up to 86%.



DASAN C&Tech's upgraded natural origin and skin-friendly technology

## "Edelweiss Exosome"

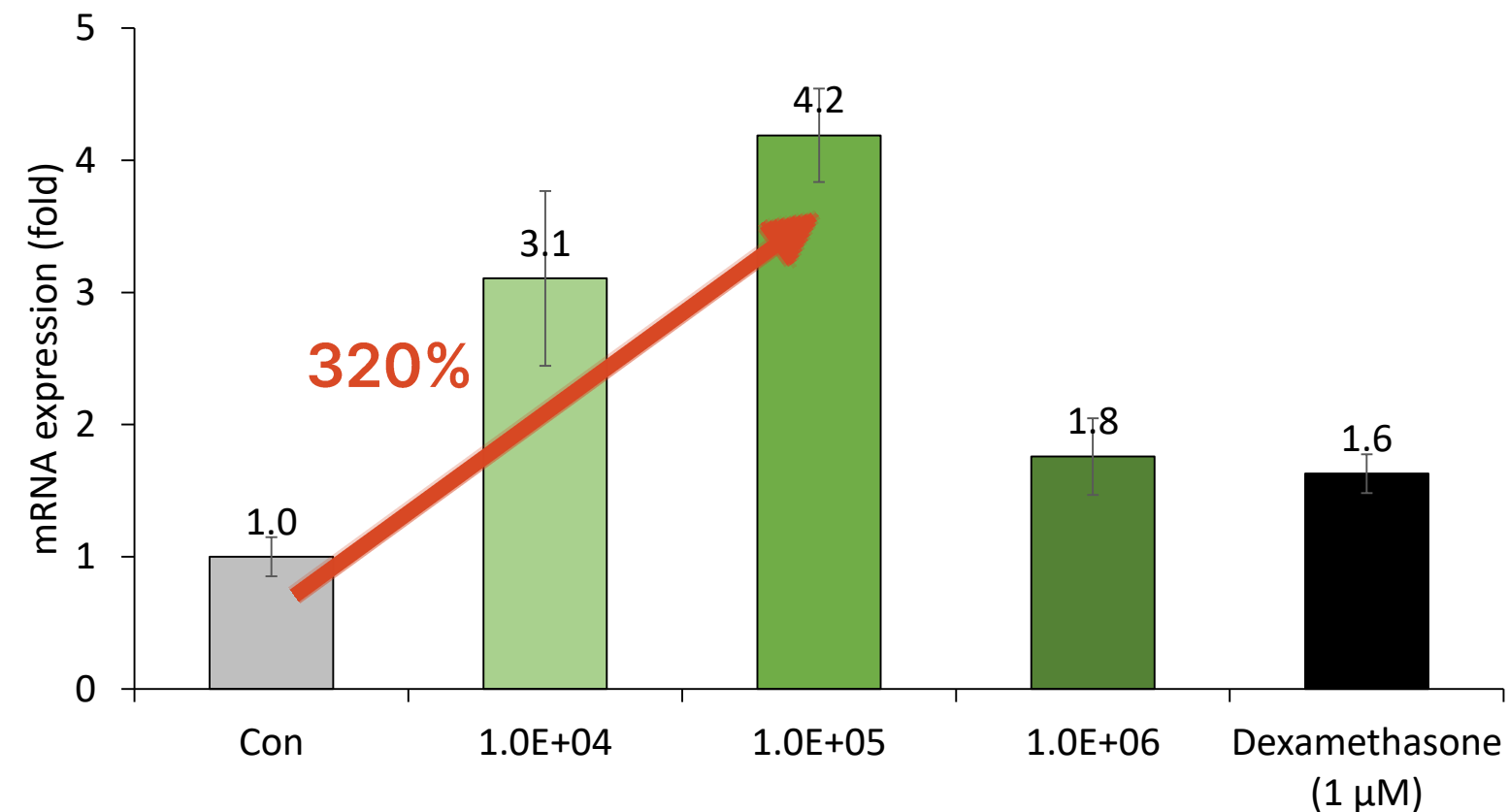
INCI : Leontopodium Alpinum Callus Extracellular Vesicles

### Cellular efficacy of Edelweiss Exosome

- hair loss prevention, Skin barrier reinforcement, Anti-inflammation, Improvement of skin elasticity -

#### ■ Improvement of skin elasticity

Edelweiss exosomes increase skin elasticity by increasing the expression of collagen synthesis gene (HGF) by up to 320%.



## Strong skin provided by "Rock Samphire" grown in the cracks of coastal rocks.

- It protects the skin from oxidative stress and external harmful environment.
- It moisturizes the skin, improving skin elasticity and overall texture.
- It helps reduce skin aging, such as wrinkles.
- It has an anti-inflammatory effect and helps soothe irritated skin.

- Scientific name : *Crithmum maritimum*
- Package size : 1kg

### KEY POINT

#Antioxidation #Skin hydration #Anti-aging #Anti-inflammation #Natural fragrance #Cell regeneration #Skin barrier reinforcement

**Strengthens your skin with the power of Rock Samphire that can withstand even cracks in rocks**

Rock Samphire exosomes strengthen the skin barrier to protect the skin from external irritants, and antioxidant ingredients prevent damage from harmful substances, creating healthy skin.

**Moist and youthful skin given by the vitality of the sea**

Rock Samphire exosomes provide a high moisture content to keep the skin hydrated, reduce signs of aging, and promote elastic skin.

**The healing effect of Rock Samphire, which grows strong even in extreme environments**

Rock Samphire exosomes soothe sensitive skin by suppressing inflammation and promoting cell regeneration to quickly recover damaged skin.

DASAN C&Tech's upgraded natural origin and skin-friendly technology

# "Rock Samphire Exosome"

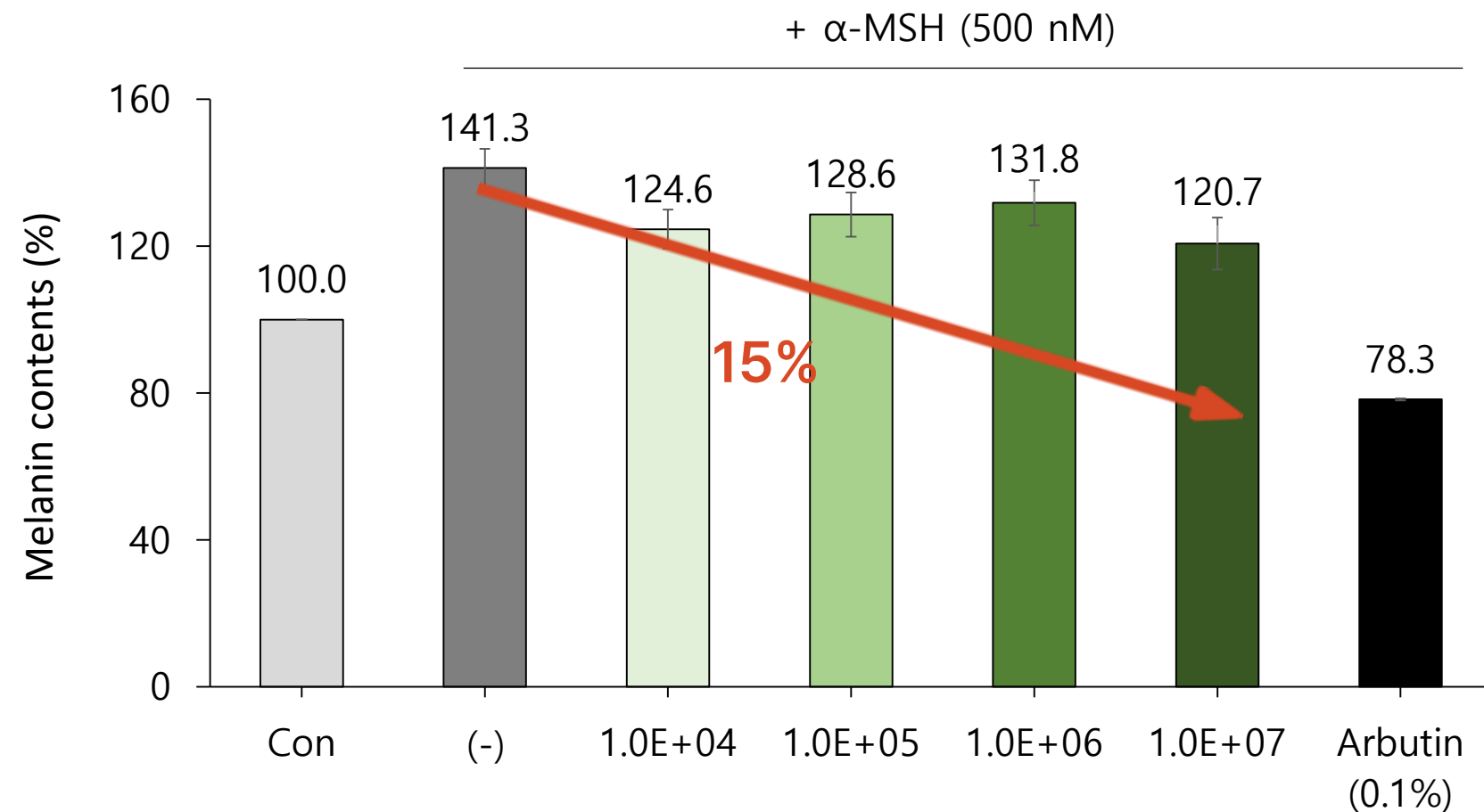
INCI : Crithmum Maritimum Callus Extracellular Vesicles

## Cellular efficacy of Rock Samphire Exosome

- Whitening, Skin barrier reinforcement, Anti-inflammation, Cell regeneration -

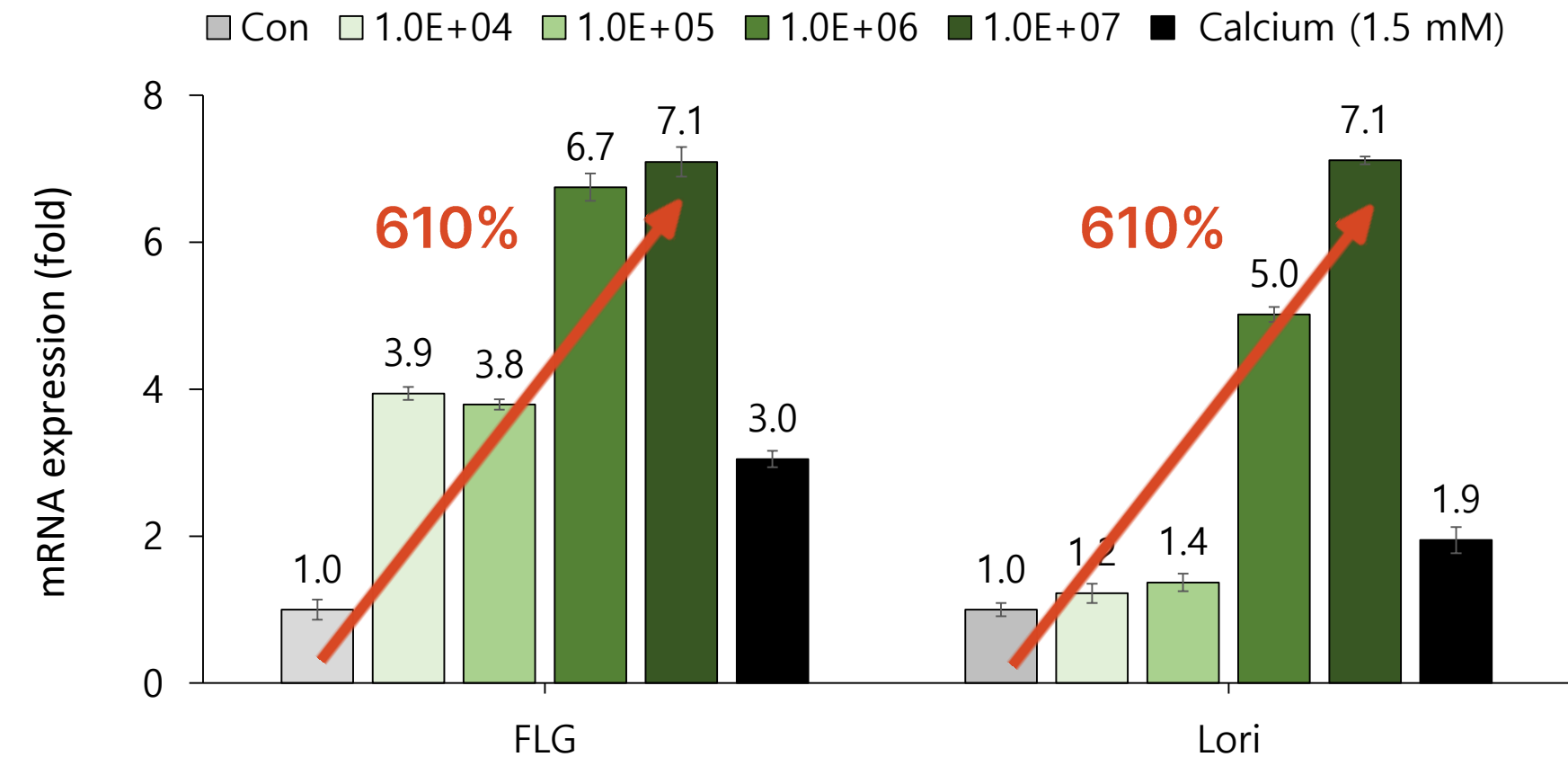
### ■ Whitening

Rock Samphire exosomes reduce the synthesis of melanin, the main cause of pigmentation, by 15%, making the skin bright and clean.



### ■ Skin barrier reinforcement

Rock Samphire exosomes increase the expression of skin barrier genes (FLG, Lori) by up to 610%, protecting the skin and preventing moisture loss.



DASAN C&Tech's upgraded natural origin and skin-friendly technology

# "Rock Samphire Exosome"

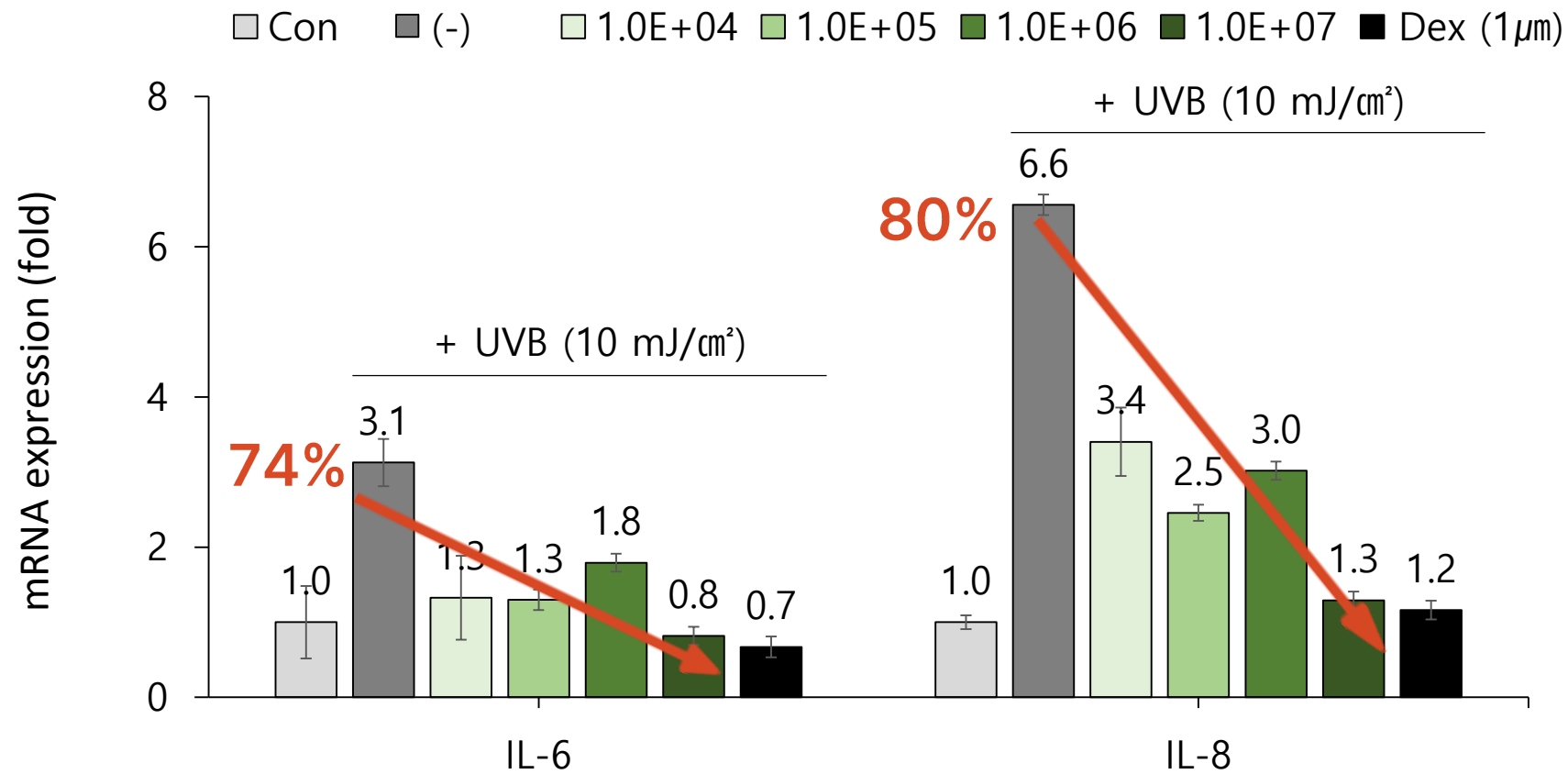
INCI : Crithmum Maritimum Callus Extracellular Vesicles

## Cellular efficacy of Rock Samphire Exosome

- Whitening, Skin barrier reinforcement, Anti-inflammation, Cell regeneration -

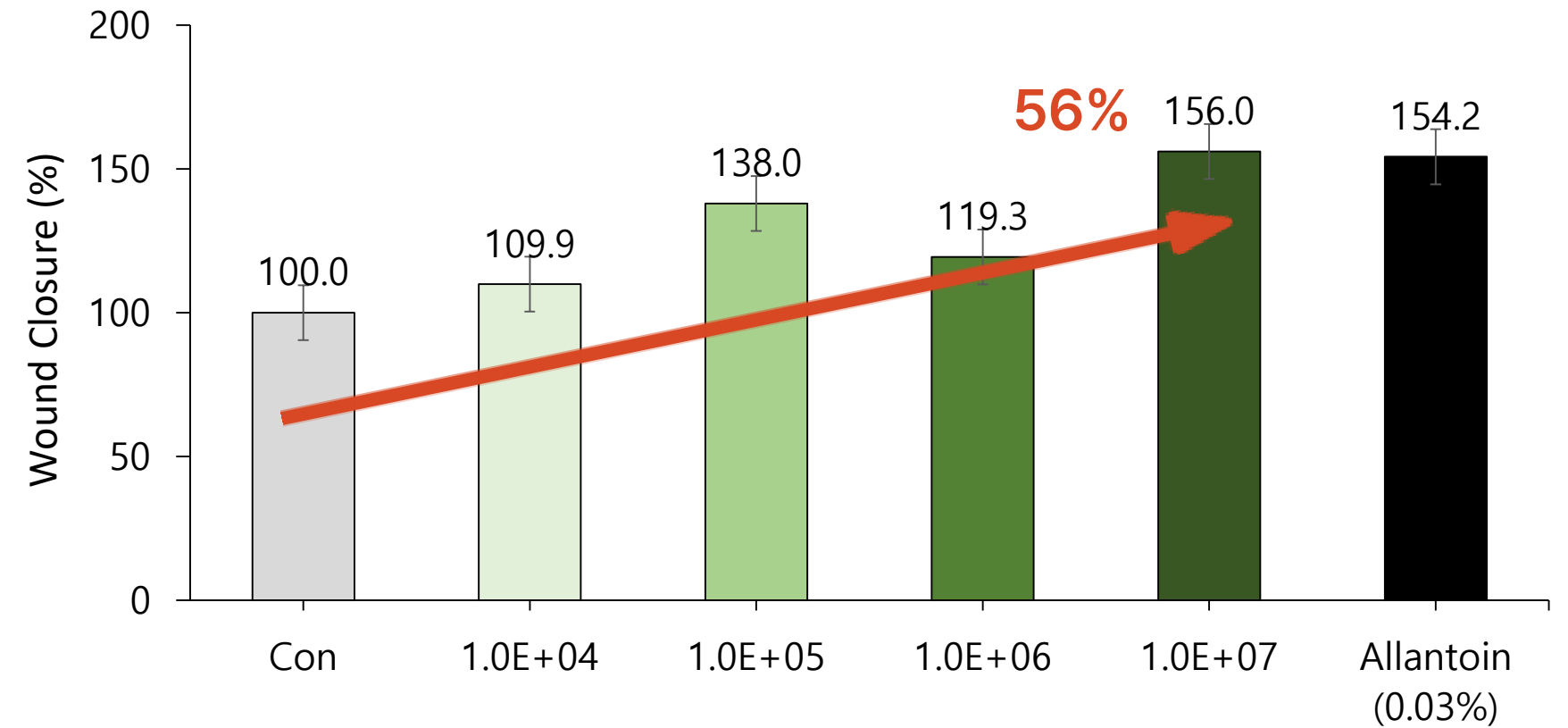
### ■ Anti-inflammation

Rock Samphire exosomes soothe the skin by reducing the expression of inflammatory genes (IL-6, IL-8) by up to 80%.



### ■ Cell regeneration

As a result of treating wounded cells with Rock Samphire exosomes, wound recovery increased by 56%.



DASAN C&Tech's upgraded natural origin and skin-friendly technology

# "Rock Samphire Exosome"

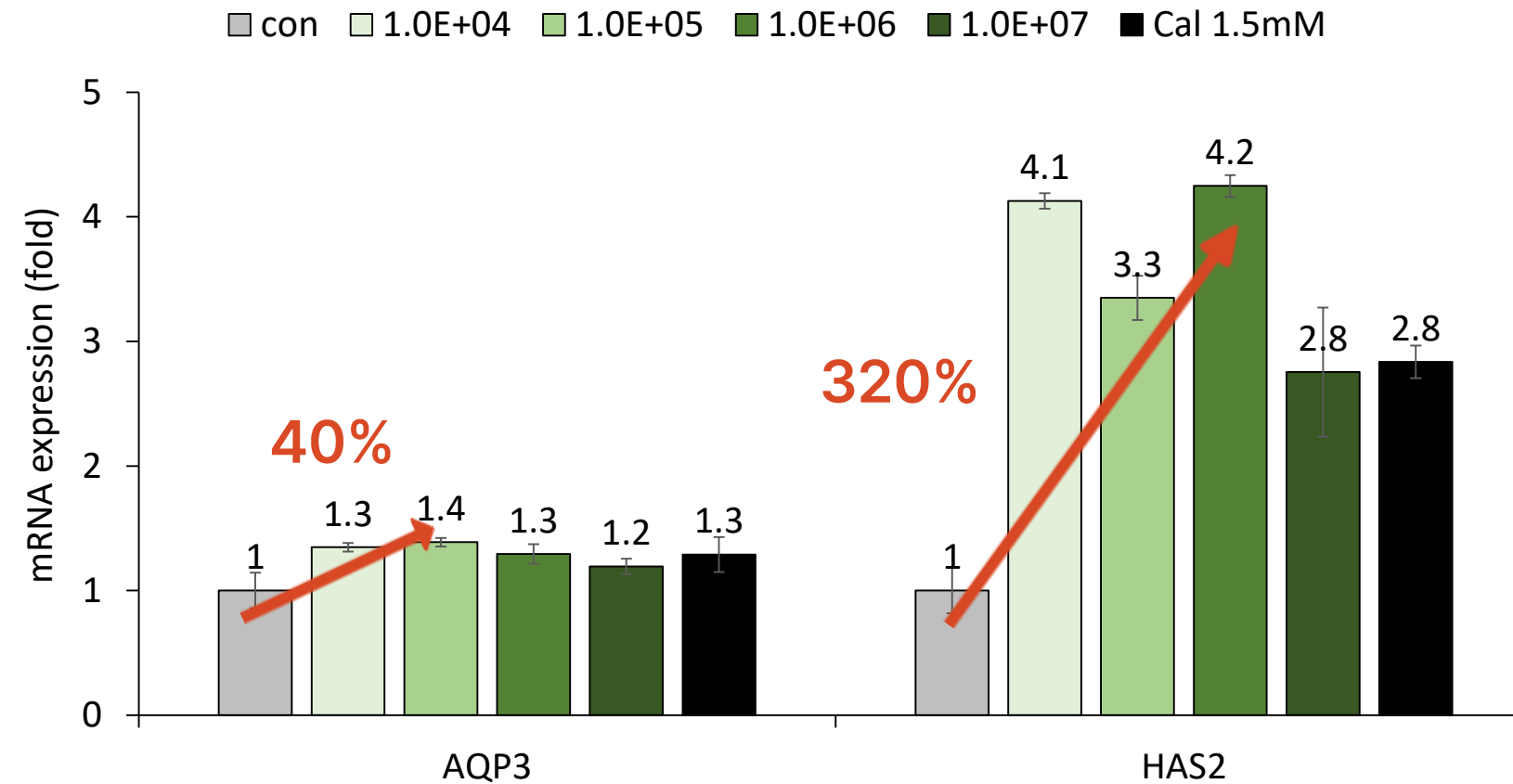
INCI : Crithmum Maritimum Callus Extracellular Vesicles

## Cellular efficacy of Rock Samphire Exosome

- Whitening, Skin barrier reinforcement, Anti-inflammation, Cell regeneration, Moisturizing -

### ■ Moisturizing

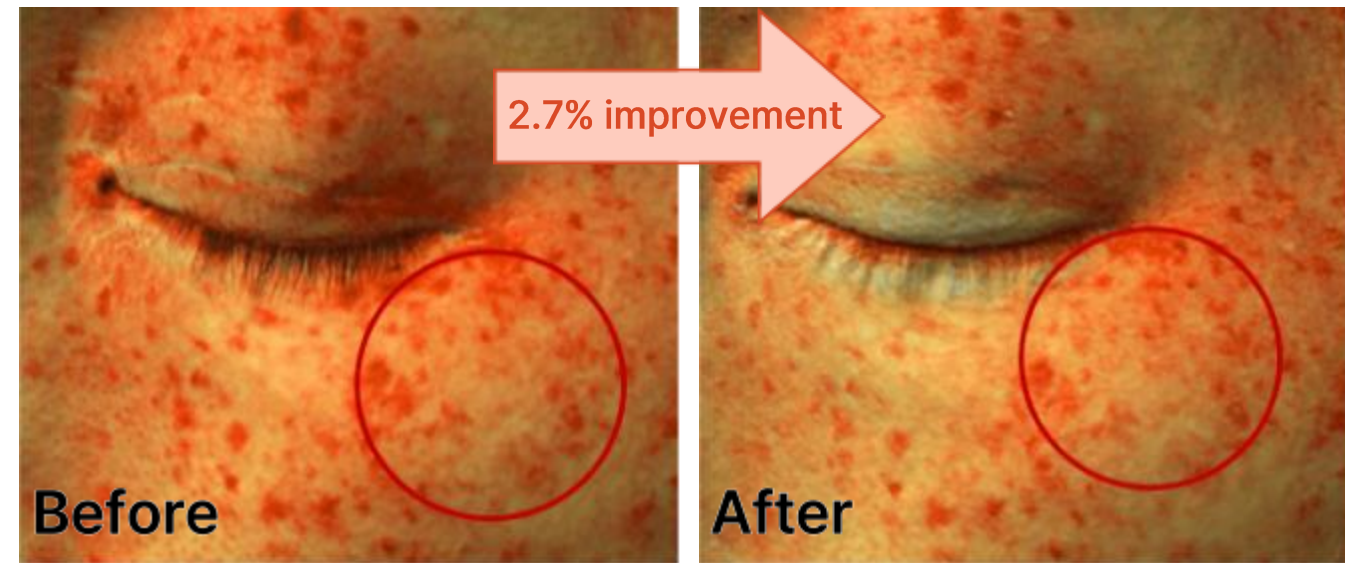
Rock Samphire exosomes increases the expression of genes (AQP3, HAS-2) involved in skin moisturizing by up to 320%, helping to absorb moisture from the outside of cells into the inside or preserve existing moisture.



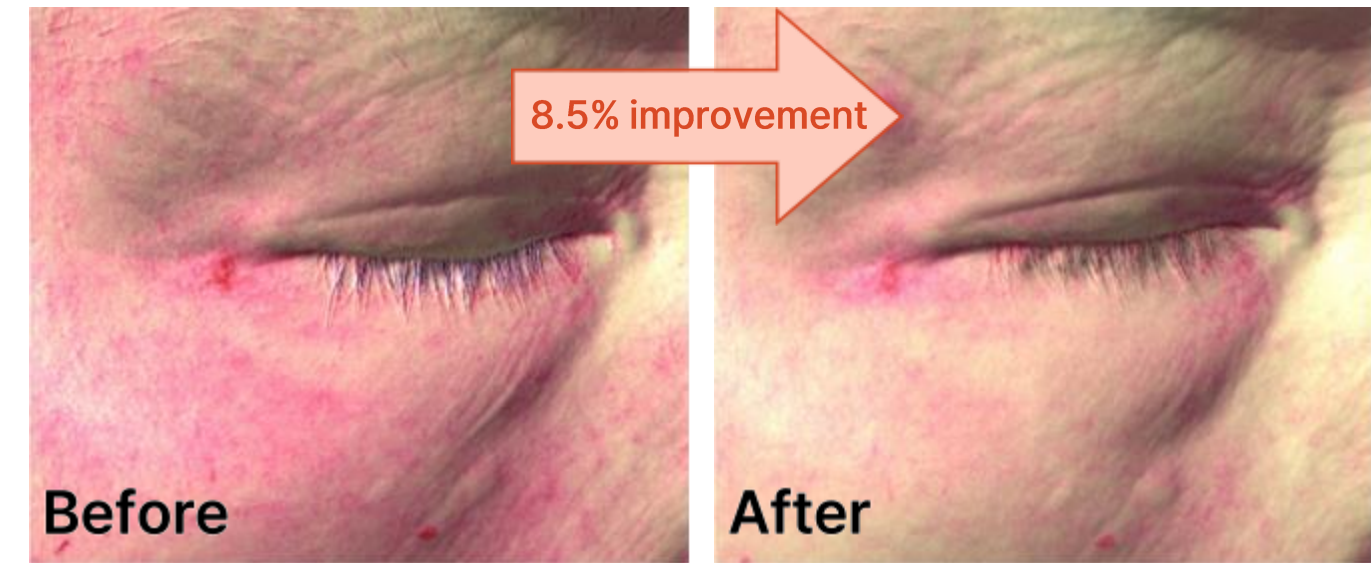
# Efficacy evaluation of "Phytozell Tri-Complex"

\*Ampoule containing 5% Phytozell Tri-Complex

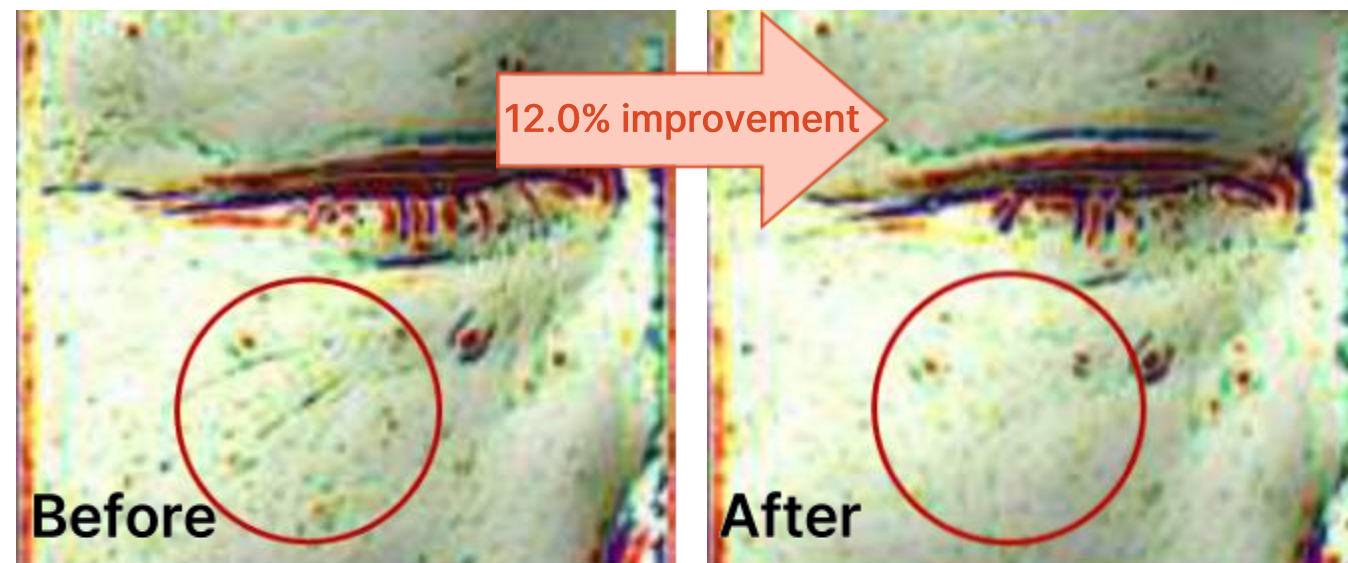
Melanin improvement after 4 weeks of use



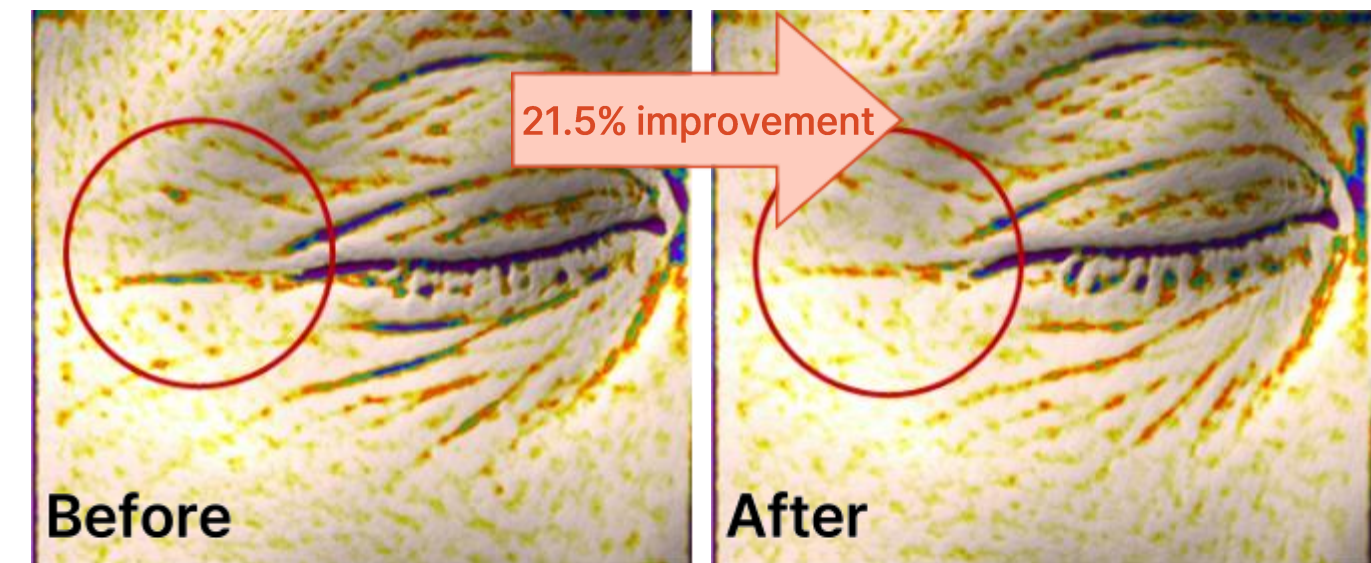
Redness improvement after 4 weeks of use



Improvement in skin roughness after 4 weeks



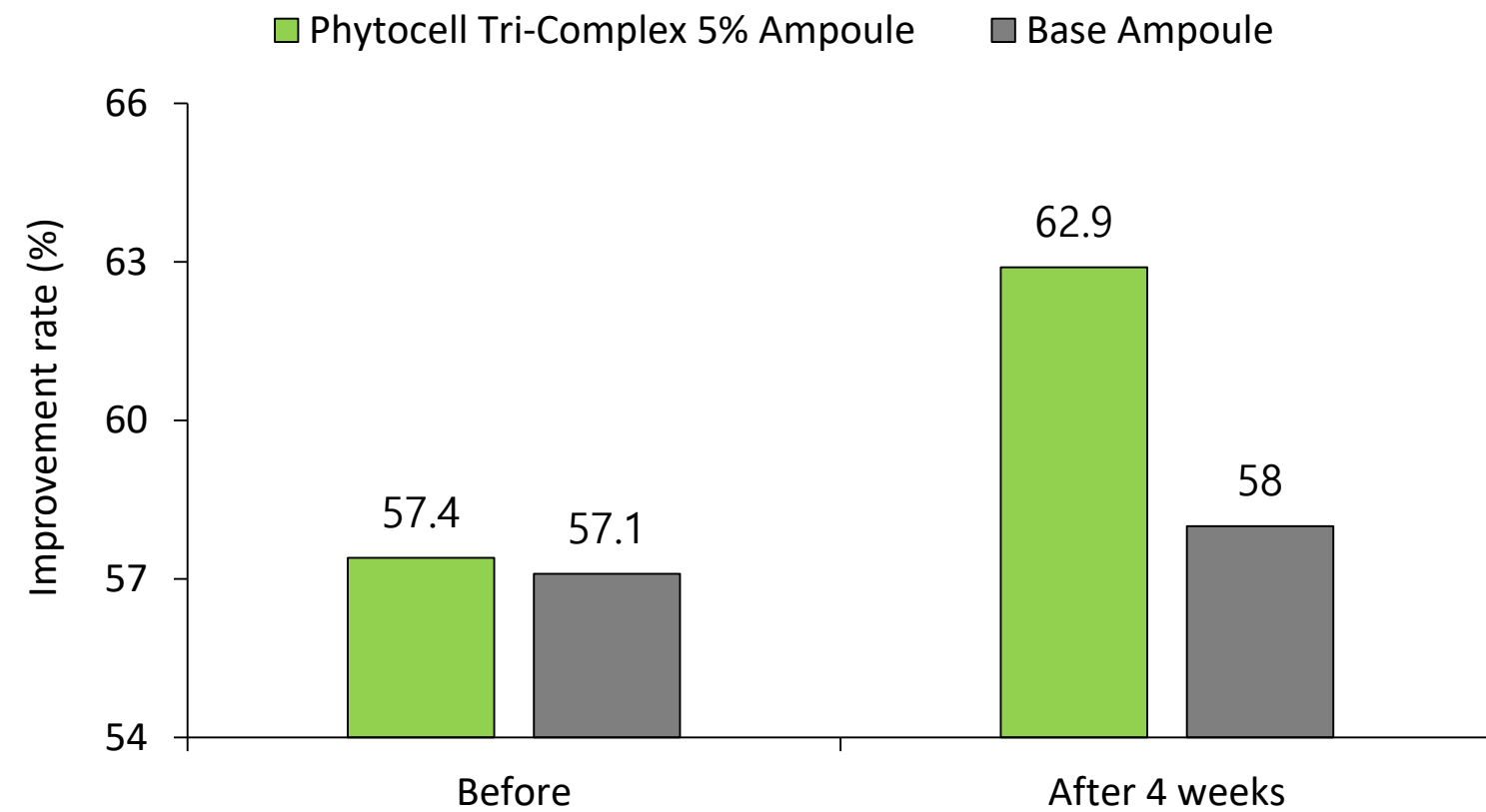
Improvement in eye wrinkles after 4 weeks



# Efficacy evaluation of "Phytozell Tri-Complex"

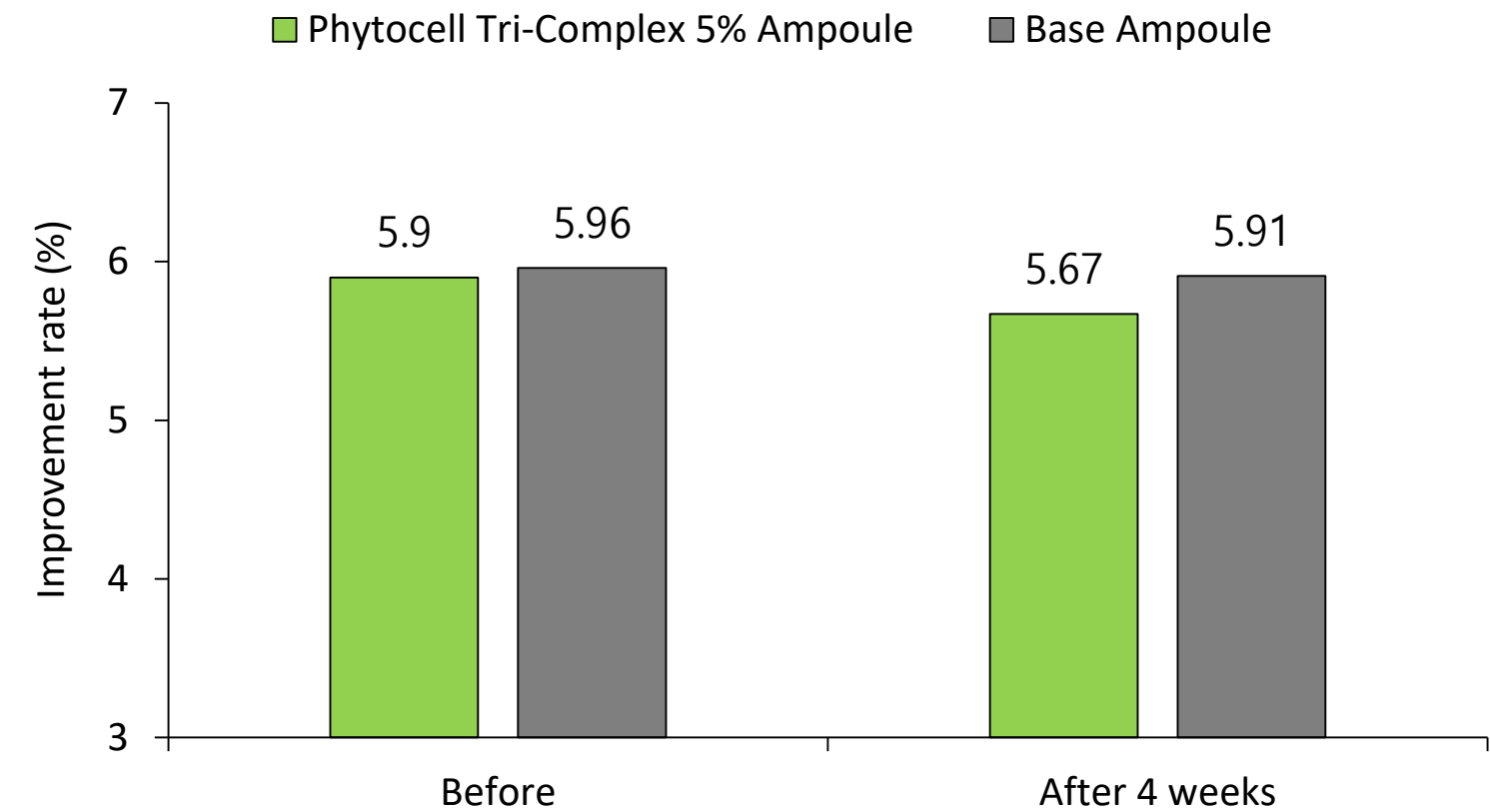
\*Ampoule containing 5% Phytozell Tri-Complex

## Improvement in skin elasticity after 4 weeks of use



- Skin elasticity in the area treated with the ampoule containing 5% Phytozell Tri-Complex increased by approximately 6.1 times more than in the control group.
- After 4 weeks of use, the ampoule containing 5% Phytozell Tri-Complex helps improve skin elasticity for firmer, smoother skin.

## Improvement in skin pH after 4 weeks of use



- Skin pH in the area treated with the ampoule containing 5% Phytozell Tri-Complex decreased by approximately 4.6 times more than in the control group.
- After 4 weeks of use, the ampoule containing 5% Phytozell Tri-Complex helps lower skin pH, thereby increasing skin acidity and enhancing its protective function against external harmful factors.

식물유래엑소좀

# Plant Callus Exosome

## CONTACT US

