

Combining Nature &  
Science for Perfect Skin

# PLANT EXOSOME SKIN CARE



## CLINICAL REPORT

- 01 Improvement in skin tone
- 02 Excellent biocompatibility
- 03 GMO-FREE certified plant cells

### Why EXOME?

Promotes cell proliferation and growth  
Delivers essential ingredients to targeted areas  
Includes exosomes, growth factors, and peptides



**EXOME**  
PLANT EXOSOME SKIN CARE

PLANT CALLUS / EXOSOME

# PLANT EXOSOME SKIN CARE



Harnessing the Power of  
Nature for Healthy Skin

**EXOME**

[www.exome.co.kr](http://www.exome.co.kr)



Total exosome particles :  
 $2.29 \times 10^8$

## WHAT IS EXOME?

EXOME was developed by analyzing the gene expressions critical for growth within the genome(exome) of plant stem cells.

## PLANT CALLUS

Plant callus is known to contain higher levels of secondary metabolites compared to typical plant tissues. It is key in producing various growth-regulating factors and antioxidant compounds that promote wound healing.

## PLANT CALLUS-DERIVED EXOSOMES

Exosomes derived from plant callus demonstrate high cellular efficacy, offering antioxidant and anti-inflammatory benefits, promoting collagen production, enhancing wound healing, providing UV protection, exhibiting antibacterial properties, and improving skin hydration and whitening.

## TYPE OF EXOSOMES

- Centella Asiatica Callus Extracellular Vesicles
- Crithmum Maritimum Callus Culture Filtrate
- Leontopodium Alpinum Callus Culture Extract
- Lavandula Angustifolia (Lavender) Callus Extract

### Advantages of Plant Exosomes

"Many studies have noted the biocompatibility of exosomes in plants and the potential for drug delivery, confirming their function as therapeutic agents (Dad et al., 2021)."

"Unlike mammalian-derived exosomes, they are hardly toxic and can achieve absorption into animal cells (Wang et al., 2013). In particular, it has the advantage of protecting internal substances from external environmental changes such as temperature and pH and delivering them to target cells (Yuan et al., 2021; Kim et al., 2022b)."

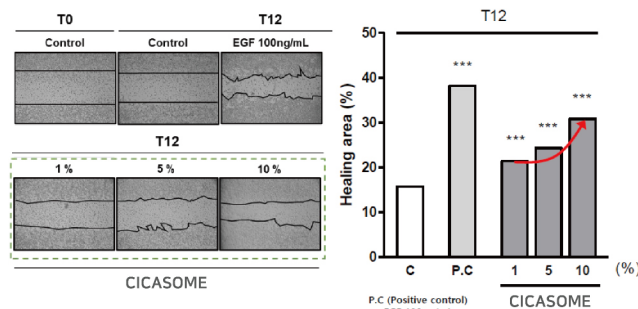
Kim DM, Kim WJ, Lee HK, Kwon YS, Choi YM. Skin Improvement of the Composition Containing Nano-exosome Derived from Aloe vera Bark Callus as New Type of Transdermal Delivery System. *Asian J Beauty Cosmetol*, 21(1), 118.

## WOUND HEALING ANALYSIS

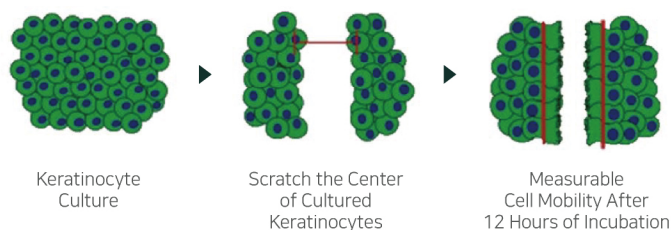
An experiment was conducted to evaluate the impact on wound healing by creating scratches(simulated wounds) on cultured keratinocytes and measuring the extent of cell migration to assess healing potential.

### KEY POINT Cell Mobility Enhancing Effects

After creating scratches on cultured keratinocytes, 1%, 5%, or 10% CICASOME was applied and incubated for 12 hours. The results confirmed that cell migration increased proportionally with higher concentrations of CICASOME treatment.

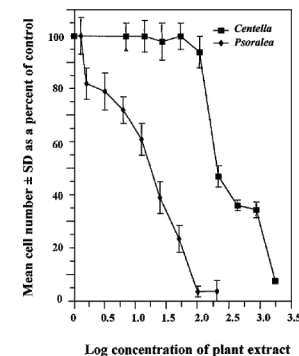


When the skin is wounded, the surrounding skin cells divide and migrate to repair the damaged tissue. However, as we age, the rate of cell division and regeneration in the epidermal slows down, reducing the skin's ability to heal efficiently and increasing the likelihood of scarring at the wound site.



## STUDY ON THE PREVENTION OF PSORIASIS

Psoriasis is typically characterized by accelerated inflammation and rapid keratinocyte division in the epidermis, leading to abnormal differentiation. It is estimated to affect approximately 1-3% of the population.



According to the study, it was observed that as the concentration of Centella Asiatica extract increased, the growth rate of SVK14 cells, which divide more rapidly than normal keratinocytes, decreased. This suggests that Centella Asiatica extract may help improve psoriasis.

### Before & After | EXOME SKIN CARE

Pore Refining & Hyperpigmentation  
EXOME | 2 Sessions | 4-Week Interval ( MTS, 0.5mm )



Freckles & Hyperpigmentation  
EXOME | 2 Sessions | 1-Week Interval ( MTS, 0.5mm )



Half-hearted  
EXOME | 4 Sessions | 2-Week Interval ( MTS, 0.5mm )

