

DOUM Co., Ltd.

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Instagram icon: doum.co.ltd

- This product is classified as a "Medical Device". Please read the "Precautions for Use" and "Instructions for Use" carefully before using.
- This is an educational material provided by Doum Co., Ltd., and it is not to be distributed to the general public or patients.
- For any inquiries regarding the product, please contact our office at +82-53-742-5902.

Single Use Only | Non-reusable | Sterile Medical Device

NATURAL CHITOSAN MATERIAL

ARCHE Wound Dressing

Innovative Solutions for Better Living

ARCHE, Innovation in Medical Care

Distinctive chitosan ingredient

- Promotes proliferation of dermal papilla cells
- Inhibits progression of hair follicle regression
- Suppresses dandruff-causing fungi
- Alleviates scalp dermatitis

From wounds to hair loss,
ARCHE protects your skin and hair.

Efficacy
Safety
Persistence
Accessibility



Production Information

- | | | | |
|-----------------------|----------------------|-------------------|---|
| • Product Name | ARCHE Wound Dressing | • Key Ingredients | Low Molecular Weight Water-Soluble Chitosan (ISC) |
| • Volume | 2mL*1EA, 3mL*1EA | • Expiration Date | 2 years from the date of manufacture |
| • Product Lincese No. | 21-5029 | • Storage Method | Store at room temperature (1-30°C) |
| • Legal Manufacturer | DOUM Co., Ltd. | | |
| • Manufacturer | Mephion Co., Ltd. | | |



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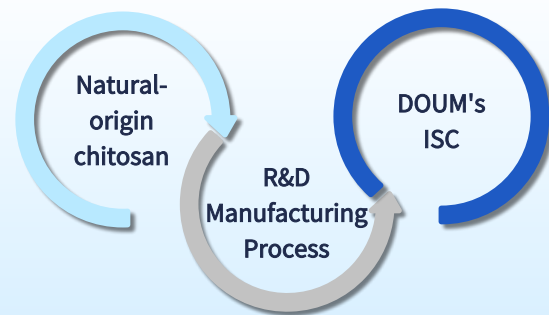


Production Information



"Wound Dressing with a hydrogel formulation using natural ingredients"

This product is a transparent adhesive wound dressing that forms a physical barrier on skin with compromised barriers, helping to maintain moisture in the skin. It is used to protect areas of the skin with damage, such as first-degree burns and dry skin.



Main ingredient Ideal Sized Chitosan

We have developed a unique raw material extracted from natural sources without chemical processes, using our proprietary technology. Through years of research and development, we identified a chitosan with an optimal molecular weight that demonstrates exceptional physiological activity, which we named ISC (Ideal Sized Chitosan). Utilizing our molecular weight control technology, we can produce ISC (Ideal Sized Chitosan) as a raw material, which promises superior effectiveness due to its excellent physiological activity.

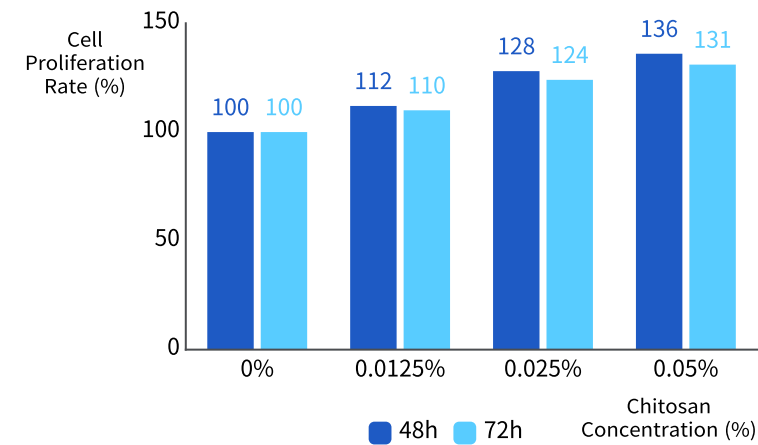
Beginning of Innovation ISC: Ideal Sized Chitosan

The Efficacy of DOUM's ISC

Antibacterial Effect	Anti-inflammatory	Hair Loss Relief
Positively charged chitosan helps inhibit bacterial growth by forming ionic bonds with the negatively charged cell walls of bacteria.	It helps reduce inflammation and alleviate pain by promoting dermal tissue regeneration and increasing the number of immune cells.	It promotes the proliferation of dermal papilla cells and inhibits hair follicle regression, supporting hair growth and regeneration.

Test Report

※ Source: D Medical College Basic and Clinical Hair Research Institute.
 ※ Note: The following data refers to the raw material only.



Dermal Papilla Cell (DPC) Proliferation Test

Dermal Papilla Cells (DPC), located at the base of hair follicles, play a crucial role in hair growth and follicle formation. The graph above demonstrates that chitosan treatment resulted in a concentration-dependent increase in DPC proliferation, which is essential for promoting hair growth. The chitosan used in this test is a low molecular weight, water-soluble form, and is a key ingredient in ARCHE Wound Dressing.

Hair Follicle Organ Evaluation (Regression Inhibition)

In hair follicle organ culture, hair follicles naturally cycle through the anagen (growth), catagen (regression), and telogen (resting) phases over time. Structural changes in each phase are evaluated and scored, with a lower total score indicating greater inhibition of regression. The chitosan used in this test, a key ingredient in ARCHE Wound Dressing, demonstrated concentration-dependent inhibition of hair follicle regression. This chitosan is a low molecular weight water-soluble form.

