

# **Advanced Healing for Beloved Pets : Exosome Wound Dressings**

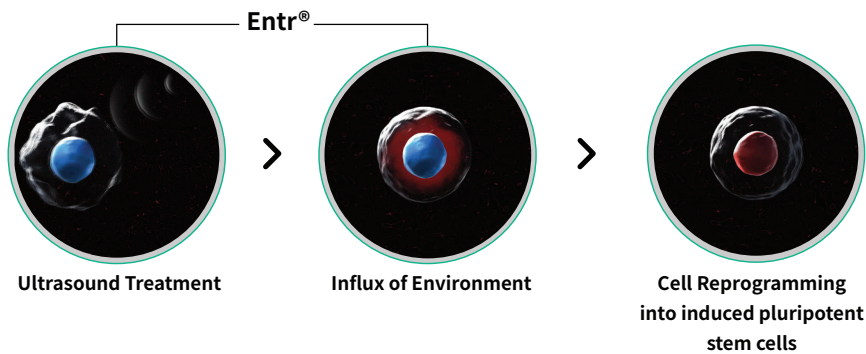


**We Supply Premium Exosome.**

MEANING

Ultrasound-directed permeation of Environmental transition-guided cellular reprogramming

MECHANISM



- Step 1. Ultrasound treatment ⇒ Hole in the cellular membrane
- Step 2. Import substances from the external environment
- Step 3. Chromatin remodeling
- Step 4. Cell reprogramming into induced pluripotent stem cells

Superiority of Entr® Cell Reprogramming

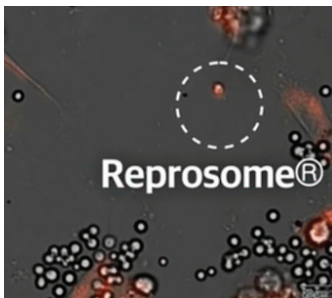
	Conventional	Entr®-based
⚡ Time Required	⚡ Several months	⚡ 1~2 weeks
🚩 Success Rate	○ Below 1%	○ 60~80%
✓ Reproducibility	→ Manual production	↻ Automatic induction
🛡 Safety	🧬 Uses genetic materials (Risk of cancerization and other side effects) ↓ Induces low-efficiency autologous stem cells	🧬 Does not use genetic materials (No cancerization) ↑ Induces high-efficiency autologous stem cells

# Reprosome®

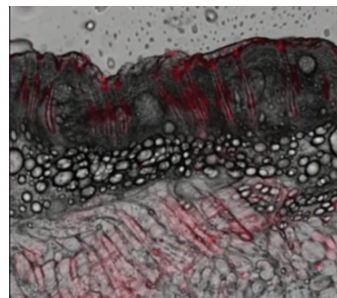
## MEANING

A cocktail of **repro**gramming factors (OCT4, SOX2, NANOG, and microRNAs) in the **exosomes** produced from induced pluripotent stem cells by Entr® technology.

## MECHANISM



Regenerative protein &  
RNA-containing Reprosome® induction



Higher tissue penetration

PUBLICATION



Ultrasound-directed permeation of Environmental transition-guided cellular reprogramming

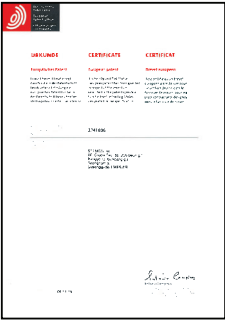


A cocktail of reprogramming factors induced in the exosome

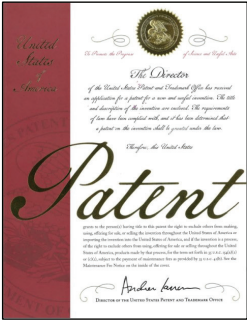
Entr®  
Biomaterials, 2017

Reprosome®  
ACS Nano, 2018

REPROSOME® PATENT



EUROPE



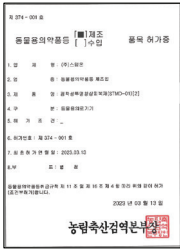
U.S.A



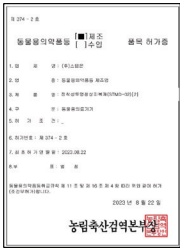
JAPAN

ITEM PERMISSION

ISO 13485



STMD-01



STMD-02



The first in the world Grade 2 medical device approval for **exosome-based wound dressings** for animal in **cream** and **gel** formulation from the South Korean government.

With this certification, we demonstrate a robust **quality management system**, ensuring the **highest standards** in our product.

# REPROPET WOUND DRESSING

## INTRODUCTION

World’s first **exosome-infused wound dressings** for animals in *cream* and *gel* formulations – a remarkable leap in veterinary care.

Harnessing the therapeutic potential of ReproPet, tiny cellular communicators, our wound dressings offer a superior solution for accelerated wound healing.



**Moisture Shield Creation**



**Deep Skin Delivery**



**Skin Regeneration**



**Anti-inflammation**



**Anti-itching**



**Growth Factor Increase**

## PRODUCTS

Our wound dressings for animals contain various proteins related to **anti-inflammation**, **anti-itching**, and **skin regeneration**.



**STMD-01**

Cream formulation  
(30 g)

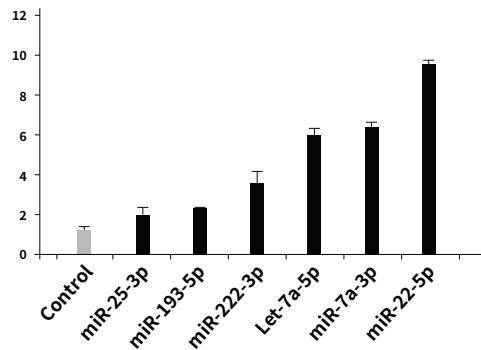


**ReproPet  
STMD-02**

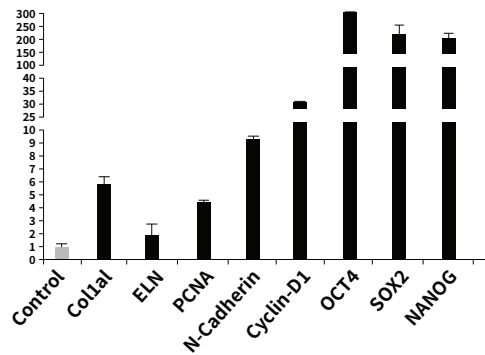
Gel formulation  
(8 g)

# ANALYSIS OF ReproPet

microRNAs related to anti-inflammation in the ReproPet

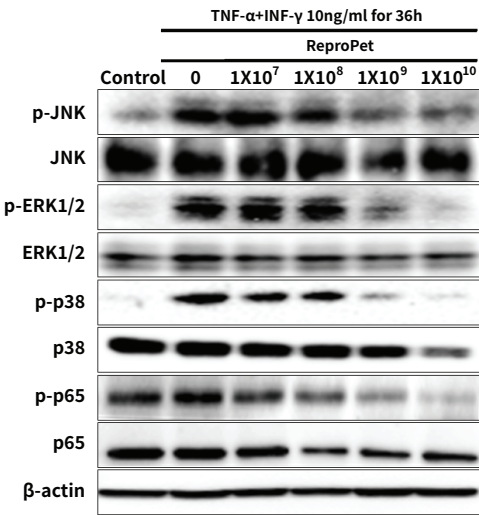


Regeneration factors in the ReproPet



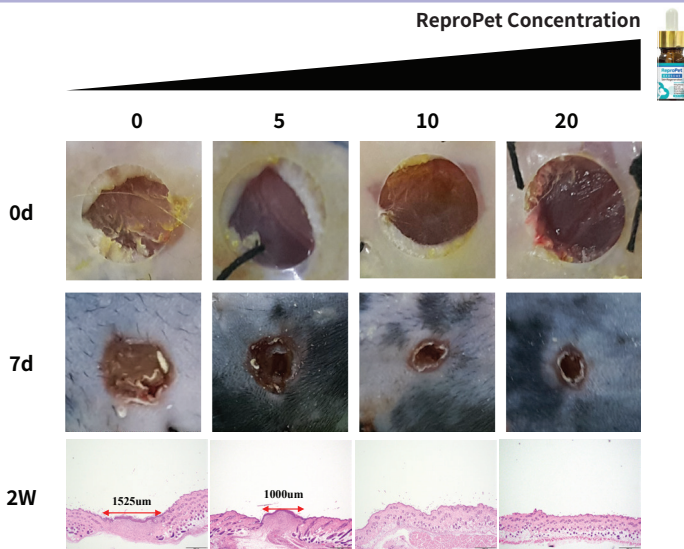
## MECHANISM

ReproPet inhibit NF-κB signaling pathway related inflammation



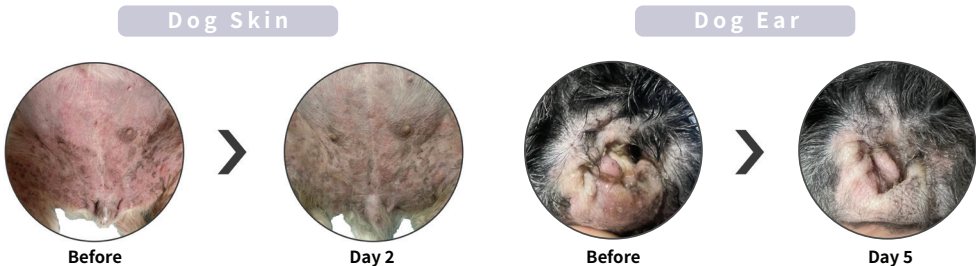
# APPLICATION CASES of ReproPet

## 1. Burn Wound Healing



▲ Therapeutic effect of ReproPet in burn wound mice model for **wound healing** and **skin barrier-strengthening**

## 2.Reduction of Skin Inflammation and Redness

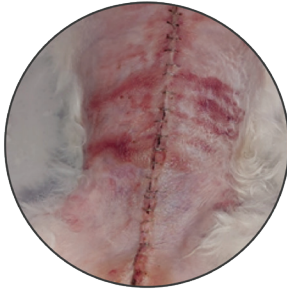


Experience the remarkable difference with our ReproPet wound dressing. Witness the visible **reduction of redness, itchiness** and **inflammation in your pet's healing process** just in two days.



# APPLICATION CASES of ReproPet

## 3. Surgical Wound Healing



**Before**



**2 Week**



Excellent skin regenerative ability in post-surgical recovery. Within just 2 weeks of consistent application, our product significantly reduced inflammation, accelerated tissue repair, and visibly improved the surgical area's condition, facilitating rapid healing and natural skin & tissue regeneration.

## 4. Chronic Wound Healing



**Before**



**Day 5**



Excellent effect of ReproPet wound dressing on chronic wounds. After continuous treatment for 5 days on chronic wounds of the pet, wound dressing significantly improved extensive chronic skin damage, demonstrating rapid tissue recovery and skin regeneration.

# REPROPET PRODUCTION



Our innovative **digital device**, UltraRepro®, ensures **homogeneous, rapid, and safe Reprosome production**, laying the foundation for our revolutionary wound dressings and it makes pet care truly exceptional.

## REPROSOME B2B SUPPLY

### REPROSOME SUPPLY FOR PET MEDICINE

We do **B2B supply** of **customized Reprosome ingredients** from pet skin cells for the **development of medical devices** and **treatments for pets**.

### EFFECTS

Reprosomes have a great effect in treatment of **inflammation-based immune disease, atopic dermatitis, itching, psoriasis** and **degenerative arthritis**. In wound healing, it has an excellent efficacy in **skin regeneration** and **generating blood vessels**.



[www.stemon.co.kr/en/](http://www.stemon.co.kr/en/)

A Bio-venture Company  
Specialized in  
Cellular Reprogramming  
& Customized Functional Exosome

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# STEMON



Promotional  
Video



홍보 동영상

## All Products Brochure / 모든 제품 브로슈어



Exosomes for  
Beauty



Exosome  
Medical Device  
for Animals



Exosomes for  
Research



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엑소좀  
동물용 의료기기



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