

Lab formulated 0.1%
 Pure Exosome for professionals



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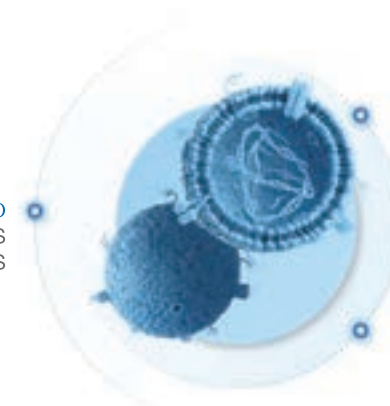
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What is the EXOSOME ?

The exosome complex (or PM/Scl complex, often just called the exosome) is a multi-protein intracellular complex capable of degrading various types of RNA (ribonucleic acid) molecules.

Exosome complexes are found in both eukaryotic cells and archaea, while in bacteria a simpler complex called the degradosome carries out similar functions.

1. CARGO
 RNA, PROTEINS
 LIPIDS



2. ADDRESS
 PROTEINS

3. PACKAGE
 LIPID BILAYER



*I can confidently say that our laboratory makes
 the purest exosome that actually functions*

Professor W. BAE from BAE Lab

Plant Based Exosomes Owned by Bae Lab

BAE Lab owned & developed PP exosomes

PP exosome is a plant based 0.1% pure exosome, named after BAE Lab's PP-EXO Technology. By harmoniously blending medicinal plant extracted exosomes with several active ingredients, our EXOTOKINE skin booster has been invented and came to the world. Bae Lab confidently and transparently opens the A to Z exosome extraction process and indicates active ingredients to assure both doctors and end user recipients.

Effects

: reducing photoaging of the skin, wound healing, hydration, vitality in dull texture, overall skin tone brightening

Key Ingredients

: Centella Aisatica Callus Extracellular Vesicles, Niacinamide, Sodium Hyaluronate, sh-Polypeptide-1, 2, 3, 4, 9, 11sh-Oligopeptide-2, 22, Hydrolyzed DNA, Citric Acid

EXOTOKINE Filtration

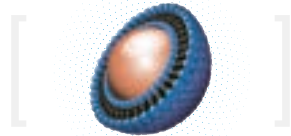
Stem Cell Conditioned Media

Multiscale Micro/Nano Filter

Micro sized Filter

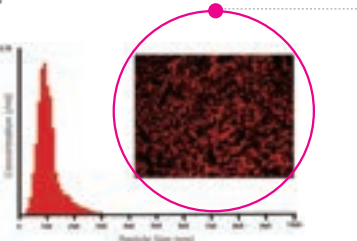
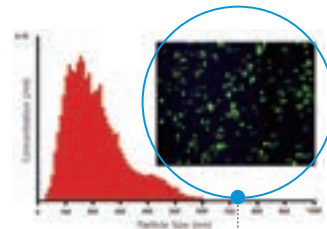
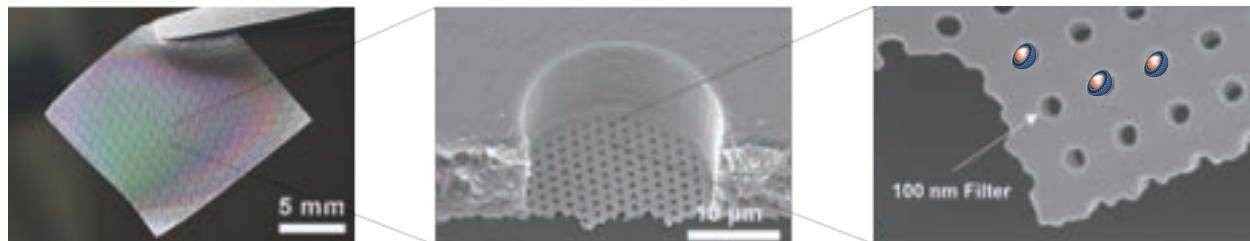
+

Nano sized Filter

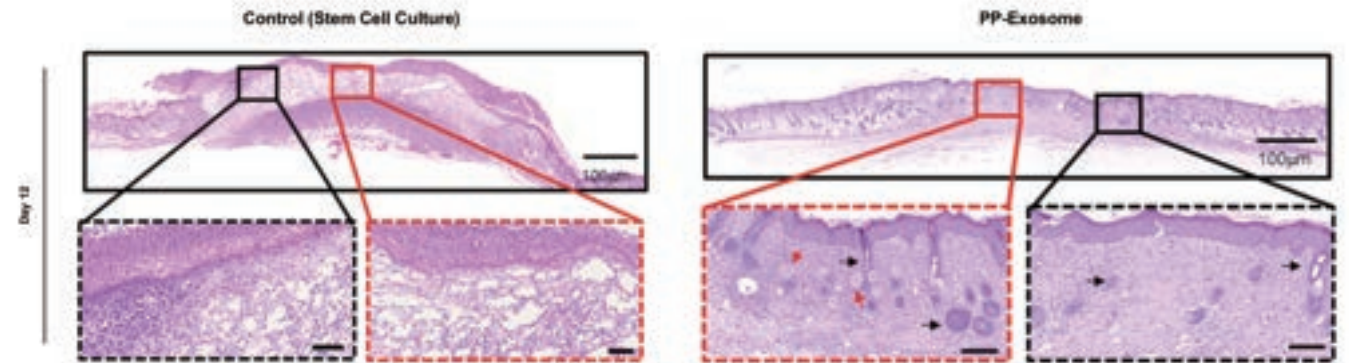


0.1% Filtered Pure Exosome

Bae lab applied membrane filtration method to achieve the purest level of exosomes



In Vitro – Result 1 : Rejuvenation



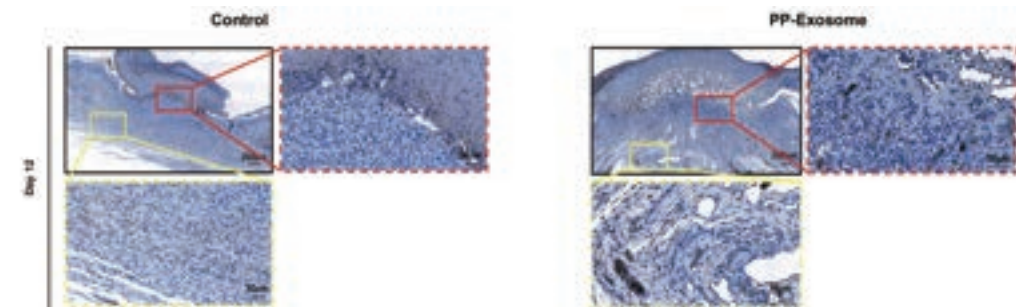
PP-Exosome을 처리한 마우스 피부 조직; 모낭과 피지선이 잘 형성되는데 기여함.

Analysis of Regenerated Tissue Structure. On the 12th day, the regenerated skin was stained with hematoxylin and eosin. The dotted box in the bottom panel is the result of zooming in on the top panel. Black arrows indicate hair follicles, red arrows indicate sebaceous glands. Scale bar = 100 µm, 50 µm.

In Vitro – Result 2: FBR & Wound Healing

Effect of exosome treatment on inflammatory response in wound-induced mice
The mobilization of inflammatory cells such as macrophages to the wound site plays an important role in wound healing as an inflammatory treatment step among the wound healing steps. On day 12 after wounding, immunostaining was performed using Iba-1 antibody, a macrophage marker, to compare the distribution of activated macrophages in the wounds of the two groups. As a result, more macrophages (blue color) were observed in the scar tissue treated with exosomes.

On the 6th day of wound induction, macrophage infiltration was found in the skin tissue of both groups. On the 9th day, macrophage infiltration was reduced in the electrical stimulation group compared to the control group (Fig. 4). Since new blood vessels are involved in tissue regeneration and wound healing, immunostaining was performed using α -smooth muscle actin (α -SMA) antibody 14 days after wound induction to histologically analyze angiogenesis by electrical stimulation. Compared to the electrical stimulation group, the control group showed a tendency to increase the number of new blood vessels and blood vessels containing red blood cells (Fig. 5).



Evaluation of the effect of PP-Exosome treatment on the inflammatory response of the wound healing process
On day 12, skin tissue was immunostained using macrophage marker Iba-1 antibody (Blue Color). Scale bar = 200 µm.