

REJUBEAU EXO SB & HB 100%

1,000,000 ppm

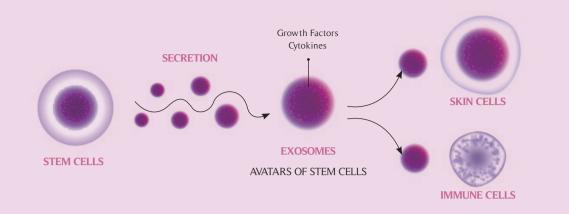
100% Concentrated and Purified Exosome Booster for Skin and Hair

More Powerful More Pluripotent Clear-Cut Effect



100% Concentrated and Purified Exosome Booster for Skin and Hair

SCIENCE & TECHNOLOGY of EXOSOME



UNDERSTANDING EXOSOMES

Exosomes might be tiny, but their role in the world of aesthetics is anything but small. These minuscule vesicles, ranging from 30 to 150 nanometers in size, are produced by various cells in our body and serve as essential messengers of communication. They carry powerful ingredients, including genetic material, proteins, and other molecules, and travel throughout the body, delivering these precious cargoes to target cells.

One of the interesting features of exosomes is their ability to transfer genetic material, particularly microRNAs, which are like tiny conductors of a genetic orchestra. These microRNAs can tune up or down the expression of genes within the recipient cells, regulating their behavior and encouraging them to act in a more youthful and vibrant manner. According to studies, Exosomes may have the power to turn back the clock on aging cells, prompting them to behave like they did when we were younger. This means they can boost collagen and elastin production, improve skin texture, reduce the appearance of wrinkles, and even promote hair growth.

INTERCELLULAR COMMUNICATION

Exosomes act as messengers in the intercellular communication network of the body. They are secreted by various cell types, including stem cells, and are released into the extracellular environment. These exosomes carry a diverse payload of molecules, including microRNAs, mRNAs, proteins, and lipids. These molecular components are selectively packaged within the exosomes, allowing them to target specific cells and influence cellular behavior.

CELLULAR UPTAKE

Upon reaching the target tissue, exosomes interact with recipient cells by binding to their surface receptors. This interaction facilitates the internalization of exosomes into the target cells, where the encapsulated bioactive molecules are released and begin to exert their effects

GENETIC REGULATION

One of the most significant contributions of exosomes in aesthetics is their ability to transfer genetic material, specifically microRNAs, to recipient cells. MicroRNAs are short, non-coding RNA molecules that play a vital role in regulating gene expression. By delivering specific microRNAs to the target cells, exosomes can modulate the expression of genes involved in cell growth, tissue repair, and collagen synthesis.

STIMULATION OF CELL PROLIFERATION AND DIFFERENTIATION

Exosomes promote the proliferation and differentiation of target cells, thereby encouraging tissue regeneration. For instance, in facial rejuvenation procedures, exosomes delivered into the skin can stimulate the proliferation of fibroblasts. The fibroblast cells are responsible for producing collagen and elastin. This increase in collagen and elastin production leads to improved skin elasticity, reduced wrinkles, and an overall more youthful appearance.

SUPPRESSION OF INFLAMMATION

Inflammation is a common response to tissue damage or injury, but excessive or chronic inflammation can be detrimental to the skin. Exosomes have demonstrated anti-inflammatory properties, which can help reduce skin redness, irritation, and swelling. By modulating the inflammatory response, exosomes promote a calmer and more balanced environment in the treated tissues.

COLLAGEN AND ELASTIN REMODELING

Exosomes play a role in collagen and elastin remodeling, which is vital in maintaining skin structure and elasticity. Collagen and elastin production declines with age, causing the skin to sag and wrinkle. By boosting the synthesis of fresh collagen and elastin fibers and their appropriate alignment within the skin matrix, exosomes can reverse this process in its tracks.

REJUBEAU EXO SB & HB 100%

100% Concentrated and Purified Exosome Booster for Skin and Hair

Customizing stem cells for intended purpose with priming factor iPSC (induced pluripotent stem cell)-derived MSCs (mesenchymal stem cells) represent a type of stem cell that is generated by reprogramming umbilical cord blood into pluripotent stem cells and then differentiated into mesenchymal stem cells. It is called iMSC (induced mesenchymal stem cell).

Merit of Human Cord Blood Induced Mesenchymal Stem Cell (iMSC) Exosome Human Cord Blood Induced **Main Ingredient** Particle / vial More than 10 Billion Pluripotent Cell Exosomes **Cell Origin** Human Cord Blood Particle Size 20 ~ 150 nm Cell Type Induced Pluripotent Stem Cell Main Distribution Size 125.4 nm Cell Line More than 90% No need for modification Particle Size Standardization Pore-to-Size Concentration 100 % (1,000,000 ppm) 1 / 1700 Growth Factor & Protein for Skin Protein / ml 650 types 8 mg Growth Factor & Protein for Hair Protein / vial 650 types 36 mg Customization for intended Particle / ml 2.30E+09 Available purpose



Differentiated Effect of REJUBEAU EXO SB & HB 100%



REJUBEAU EXO SB 100[%] Concentrated and Purified Exosome Booster for Skin

Product Name	Composition	Remarks
REJUBEAU EXO SB 100%	SB 100 Stem Cell : 300 mg x 5 vial Activating Solution : 5 ml x 5 vial	

· Applied for CPNP & FDA OTC



EXO (SB 1

Alleviate Inflammation

Relieve Dermatitis: skin spot / acne prone skin / problematic skin

Activate skin cell and thicken dermis layer

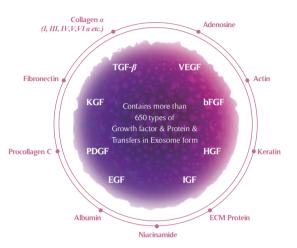
Improve skin elasticity, fine & deep wrinkles, sagging pores and rejuvenates skin

Regenerate skin cell and antiaging

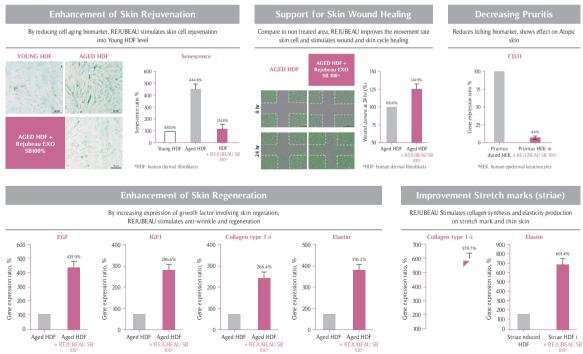
Promote the proliferation of Elastin, Collagen, Hyaluronic Acid

Improve skin tone

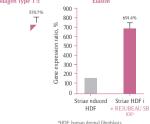
Promote more radiant and young toned complexion



REJUBEAU EXO SB 100% in vitro



*HDE: human dermal fibroblasts



PROTOCOL

General Guidance

- 1. Mix EXO SB 100% Exosome powder (300mg) with EXO SB 100% Activating solution (5ml).
- 2. Cleanse the area to be treated thoroughly

3. Apply the mixture to the skin and allow it to be absorbed thoroughly into the skin by MTS device like a Derma roller or a Derma pen.

4. After the treatment, gently massage the residue to allow it to be absorbed into the skin and apply calming mask

- 5. Apply calming and regenerating serum as a post-care.
- 6. Number of treatment sessions:
- 1) Intensive phase: 1 treatment a week for 5 weeks for skin. (It can be different depending on patient status)
- 2) Maintenance phase: 1 treatment a month or if necessary
 - ▶ In case the blended solution causes any trouble to sensitive patients, the alternative guidance is

Full Hvdration

- 1. After mixing EXO's Exosome powder (300mg) with EXO's Activating solution (5ml), shake it sufficiently and leave it for 2 or 3 minutes for full hydration
- 2. The mixed solution should be used within 3 hours and stored in a refrigerator.

Alternative Guidance for Sensitive Skin

- Mix EXO's Exosome powder (300mg) with Normal Saline (4 or 5 ml).
 Apply the mixed solution to the skin after treating with an MTS device like derma roller or Derma pen. After the treatment, the patient can use the EXO's Activating solution (5ml) at home topically.

Alternative Guidance [Japan only]

- 1. Blend EXO's Exosome powder (300mg) with Normal Saline (4 ml)
- 2. Treat by using MTS Injector
 - ▶ After the treatment, the patient can use the EXO's Activating solution (5ml) at home topically.
 - ▶ This guidance is suggested for the Japanese market only.

Storage

- EXO's Exosome powder should be stored in the refrigerator $(2 \sim 6^{\circ} C)$
- Check the Exosome powder condition before hydration. White is normal. If the Exosome powder shows browning, do not use it and discard it.

Before & After Treatment



Before **Before** After Before After After **Before** After

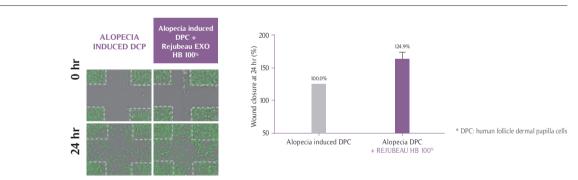
REJUBEAU EXO HB 100% Concentrated and Purified Exosome Booster for Hair Product Name Composition Remarks HB 100 Stem Cell: 300 mg x 5 vial EXO HB 10 **REJUBEAU EXO HB 100%** Activating Solution : 5 ml x 5 vial · Applied for CPNP & FDA OTC Collagen α Albumin (I, III, IV,V,VI a etc.) **MORE POWERFUL** TGF-β VEGI Actin Fibronectin **MORE PLURIPOTENT** KGF bFGF Contains more than 650 types of Growth factor & **CLEAR-CUT EFFECT** Protein & transfers in Exosome form PDGF HGF Procollagen C Keratin EGF IGF SCALP -Hydrate and nourish the scalp ECM Protein Panthenol -Promote a healthy hair growth cycle Biotin -Noticeably reduce hair loss

-Visibly make hair look and feel soft, shiny, and full

REJUBEAU EXO HB 100% in vitro

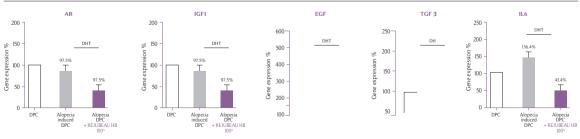






Enhancement of Skin Regeneration

REJUBEAU Prevents hair loss and promotes hair growth by reducing the expression of hair loss cause receptors and related factors in dermal papilla cells in the haair loss environment and increasing the expression of hair growth growth promoting factors



* DPC: human follicle dermal papilla cells

PROTOCOL

General Guidance

- 1. Mix EXO HB 100% Exosome powder (300mg) with EXO HB 100% Activating solution (5ml). 2. Cleanse the area to be treated thoroughly.
- 3. Apply the mixture to the scalp and allow it to be absorbed thoroughly into the skin by MTS device like a Derma roller or a Derma pen.
- 4. After the treatment, gently massage the residue to allow it to be absorbed into the skin.
- 5. Number of treatment sessions:
- 1) Intensive phase: 1 treatment a week for 10 weeks for hair.
- (It can be different depending on patient status)
- 2) Maintenance phase: 1 treatment a month or if necessary. In case the blended solution causes any trouble to sensitive patients, the alternative guidance is recommended.

Full Hydration

1. After mixing EXO's Exosome powder (300mg) with EXO's Activating solution (5ml), shake it sufficiently and leave it for 2 or 3 minutes for full hydration 2. The mixed solution should be used within 3 hours and stored in a refrigerator.

Alternative Guidance for Sensitive Skin

- 1. Mix EXO's Exosome powder (300mg) with Normal Saline (4 or 5 ml).
- 2. Apply the mixed solution to the skin after treating with an MTS device like derma roller or Derma pen.
 - After the treatment, the patient can use the EXO's Activating solution (5ml) at home topically.

Alternative Guidance [Japan onlv]

- 1. Mix EXO's Exosome powder (300mg) with Normal Saline (4 ml)
- 2. Treat by using MTS Injector
 - After the treatment, the patient can use the EXO's Activating solution (5ml) at home topically.
 - This guidance is suggested for Japanese market only.

Storage

EXO's Exosome powder should be stored in the refrigerator $(2 \sim 6^{\circ} C)$

Check the Exosome powder condition before hydration. White is normal. If the Exosome powder shows browning, do not use it and discard it.

Before & After Treatment -



Before After





After **Before**

Before

After



TRACLE INC.

RM 801, Samyoong Tower, 1090, Gyeongui-Ro, Paju-Si, Gyeonggi-Do 10908, Republic of Korea E. info@tracle.kr / T. + 82 (0)70 4696 5346 /F. + 82 (0)31 943 8183 / www.tracle.kr & www.rejubeau.kr