

## SCIENCE & TECHNOLOGY OF EXOSOMES

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### ◆ What are Exosomes?

BENEV Exosome treatments are based on the most cutting edge scientific biotech breakthrough for skin rejuvenation and regeneration. Exosomes are responsible for cell to cell communication and for facilitating the exchange of RNA and other important proteins between cells (e.g. fibroblasts, keratinocytes, immune cells, etc.), in addition to transferring numerous growth factors and cytokines and genetic materials that have shown signs of tissue repair an improving skin cells. These data coding avatars have been harnessed for our new line of exosome products to promote a more radiant youthful appearance.

### ◆ What is the function of Exosomes?

The major role of exosomes is to carry the information by delivering various effectors or signaling molecules between specific cells.

### ◆ What are the different Exosomes available for skin rejuvenation and how are the collected and manufactured?

Currently there are Lyophilized on Not Lyophilized exosome products available. The non-lyophilized products are unstable and need to be kept frozen and tend to be expensive. The Lyophilized products are more stable and can be manufactured in larger quantities which reduces the price without significantly decreasing the efficacy.

### ◆ How to select an Exosome product for professional use?

This depends on the clinical application of the exosome product, either topical use for rejuvenation or for injection for other indications. To determine the category of an exosome product look at the label claim and ingredient listing. Look into if the product is claiming to have live cells. The BENEV Exosome Regenerative Complex and Exosome Regenerative Complex + were developed for topical use for skin and scalp rejuvenation, the complex and scientific method of production ensures quality, efficacy and safety. Vials of Exosomes contain anywhere between 500K – 10 Billion particles, certain manufacturing processes may hinder this however a good stable lyophilized exosome product should yield between 2 Billion – 5 Billion particles per vial. A very important factor is the price of the Exosome products, non-lyophilized are very expensive at \$800-\$1300 per vial which hinders the attractiveness for use in skin rejuvenation treatments, a good quality lyophilized product is much more stable and less expensive.

### ◆ Why is it a dual vial?

Exosome Regenerative Complex and Exosome Regenerative Complex + are designed as a dual vial system consisting of 1 qty 20 mg vial of Lyophilized Exosomes, and 1 qty 5 mL vial of Diluent. The vial of Lyophilized Exosomes contains Lyophilized Exosomes, Growth Factors, Peptides, and Co-enzymes, and the vial of Diluent contains HA, Growth Factors, Amino Acids, and Minerals. Individually both vials are highly concentrated anti aging powerhouses, reconstituted the Exosome Regenerative Complex allows for superior results, assisting in not just rejuvenation but regeneration. The diluent formula allows for optimization of skin hydration utilizing a proprietary blend of skin and scalp regenerative ingredients.

### ◆ How do you use Exosome Regenerative Complex and Exosome Regenerative Complex + ?

Exosome Regenerative Complex and Exosome Regenerative Complex + are used to preform our BENEV EXO-XOM FACIAL™. This treatment can be applied post Micro-Needling, RF Needling, Chemical Peel, PRP, and Non Invasive Laser. BENEV Exosome Regenerative Complex and Exosome Regenerative Complex + are post care “topical use” cosmetic solutions. These products are not drug products. They are not intended to prevent, treat or cure diseases or medical conditions. They are not intended to be injected or delivered intravenously.

### ◆ Is Exosome Regenerative Complex and Exosome Regenerative Complex + Sterile?

Exosome Regenerative Complex and Exosome Regenerative Complex + have gone through autoclave sterilization. Exosome Regenerative Complex and Exosome Regenerative Complex + are intended to be used as a cosmetic topical product. Not intended for injection.

### ◆ What is the Source for Exosome Regenerative Complex and Exosome Regenerative Complex +?

Human Adipose Stomal Cell Exosome

## FAQ

### ◆ Why exosomes from adipose tissue as opposed to others such as placenta?

To answer this question, a more defined question needs to be looked at which is Why Placenta, or why not amnion, and if amnion, what amnion, amnion derived, amnion stem cells, etc.

### ◆ What are the reported drawbacks of exosomes from adipose tissue?

There are no valid report on drawbacks of exosomes from adipose tissue.

### ◆ What are the differences between exosomes that are lyophilized and those that are not?

ExoPresso Exosome Isolation Technology, is our process of lyophilizing allowing us to separate Exosomes from other components in the cultured medium.

### ◆ How viable are lyophilized exosomes, what testing and proof is there of viability when compared to non-lyophilized?

ExoPresso Technology is developed to preserve the integrity of proteins within Exosomes. The lyophilized Exosomes go through stringent purification & filtration process, which enable us to determine the purity and concentration of the exosome in finished good. We perform the In-Vitro testing to assure the viability of Exosomes on each batch. Exosome Regenerative Complex and Exosome Regenerative Complex + powered by ExoSCRT™ has proven to promote skin cell proliferation by up to 80% compared against control.

### ◆ What is the purification process?

ExoPresso Exosome Isolation Technology is an innovative technology to separate and refine 0.1% pure Exosomes from stem cell conditioned media.

### ◆ How do you mix Exosome Regenerative Complex and Exosome Regenerative Complex +?

1. Open carton, and combine 1 Vial of Diluent into 1 Vial of Lyophilized Exosome. Mix thoroughly.
2. Cleanse skin and scalp thoroughly and dry completely.
3. Apply Exosome Regenerative Complex to skin, using the entire vial.  
NOTE : Use immediately after mixing, not exceeding 3 hours
4. Follow with appropriate moisturizer and protection.

## EXOSOME REGENERATIVE COMPLEX

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### ◆ What is Exosome Regenerative Complex powered by ExoSCRT™?

Exosome Regenerative Complex is an intensive dual-action complex formulated to absorb quickly into the skin delivering the concentrated power over 2.5 BILLION STEM CELL DERIVED LYOPHILIZED EXOSOMES, potent GROWTH FACTORS, PEPTIDES, COENZYMES, MINERALS, AMINO ACIDS, and VITAMINS. Our paraben-free, steroid-free, and hypoallergenic patented technologies and ingredients are clinically proven to rejuvenate and regenerate the skin.

### ◆ What are the Clinicals & Before & Afters for Exosome Regenerative Complex? (Refer to [www.BENEV.com](http://www.BENEV.com))

### ◆ How many Lyophilized Exosomes does Exosome Regenerative Complex have ?

2.5 Billion Lyophilized Exosomes

## EXOSOME REGENERATIVE COMPLEX +

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### ◆ What is Exosome Regenerative Complex + powered by ExoSCRT™?

Our clinically proven paraben free and hypoallergenic intensive dual action complex is designed to absorb quickly into the skin delivering the concentrated power of over 5 BILLION LYOPHILIZED EXOSOMES, POTENT GROWTH FACTORS, PEPTIDES, CO-ENZYMES, MINERALS, AMINO ACIDS, VITAMINS and irritation reduction agents to rejuvenate, and intensely moisturize the skin and scalp.

### ◆ What are the Clinicals & Before & Afters for Exosome Regenerative Complex + ? (Refer to [www.BENEV.com](http://www.BENEV.com))

### ◆ How many Lyophilized Exosomes does Exosome Regenerative Complex + have ?

5 Billion Lyophilized Exosomes