EXCEAN



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"Awaken your skin's potential with the magic of EXOCEAN"

EXOCEAN is a potent, nutrient-rich blend of plant exosomes (EV, Extracellular Vesicles) and botulinum polypeptides designed to target and repair damaged skin and hair cells, providing essential nutrients for effective cellular restoration.





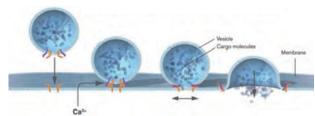
What is Exosome?

A Cell-to-cell Transit System

"Exosomes are extracellular vesicles generated by all cells"

Molecules produced in the cell are known to be packaged into vesicles, which are referred to as extracellular vesicles (EVs) or exosomes. Exosomes mediate both shortand long-distance intercellular communication in health and disease, influencing various aspects of cell biology. They contain the core capabilities of stem cells and essential regenerative materials that transmit signals between cells.

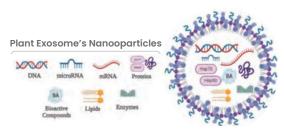




The Plant Exosome

Ethical, Vegan Material that Delivers Great Results

Plant exosomes have the potential to deliver nano-bioactive compounds to the human body, thereby providing various anti-inflammatory, antioxidant, and antitumor benefits.



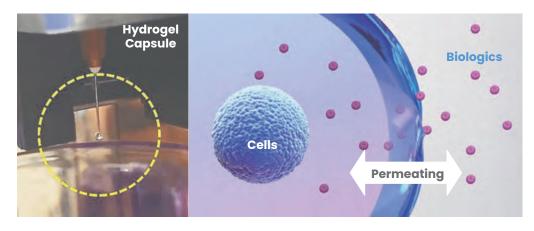
A Plant Exosome

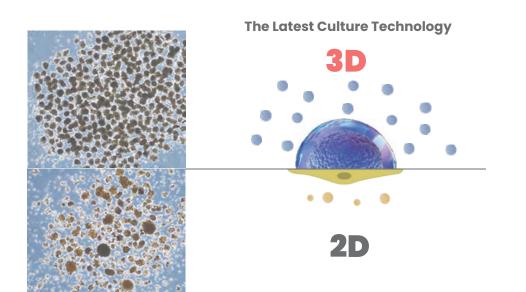


3D, The Latest Culture Technology

Human-like, Three-dimensional Cellular Environment

The patented **3D Tissue Culture Platform** uses
bio-ink to encapsulate tissue
cells, creating a human-like,
three-dimensional cellular
environment. These
encapsulated 3D cell models
are cultured in bioreactors,
where they maintain a **uniform size** without further
aggregation. This process
enhances both the quality
and productivity of
exosomes.



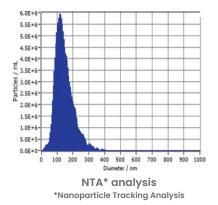


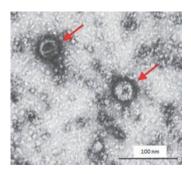
- 4× Higher Uniformity with Precision
- Better
 Quality
 Control
- 90× Higher Productivity

EXOCEAN's Exosome Particles

Remarkable and Powerful Cell Signaling

EXOCEAN's exosome particles (EVs, Extracellular Vesicles) are high-quality exosomes ranging from 30 to 150nm in size.
Experience the remarkable and powerful cell signaling power delivered by 38 billion particles per vial.





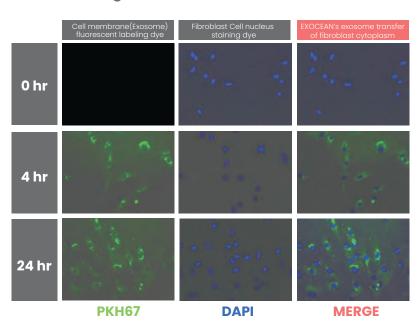
TEM** analysis

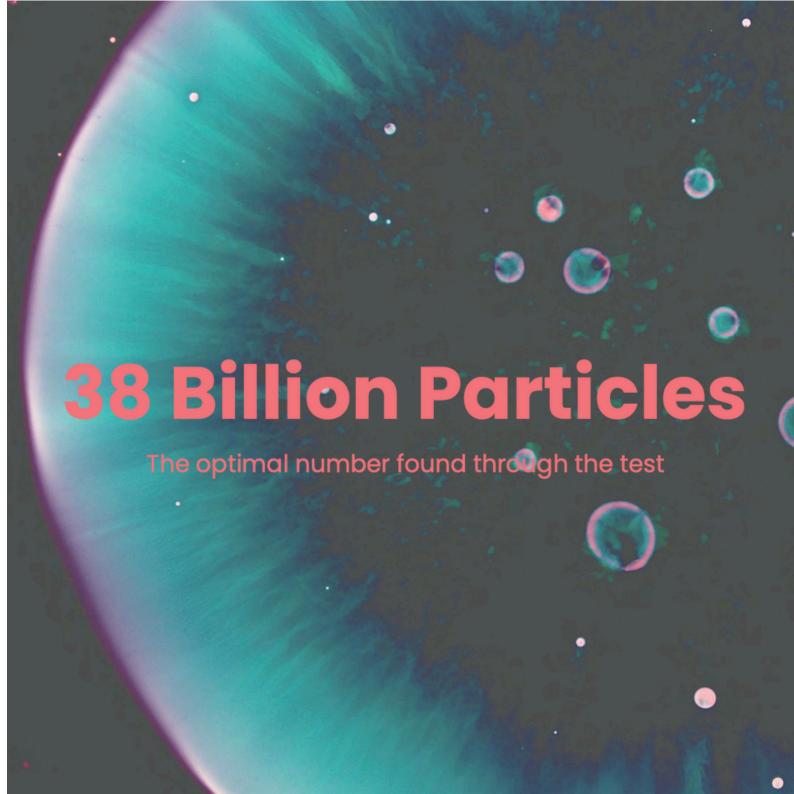
**Transmission Electron Microscopy

EXOCEAN's Exosome Cell Uptake

Maximizing Cellular Absorption for Enhanced Skin Regeneration

- After staining EXOCEAN's exosomes with a green fluorescent marker, we examined the extent of fibroblast infiltration.
 EXOCEAN's exosomes were
- found to penetrate fibroblasts, promoting the synthesis of collagen and other factors, enhancing cell activity, and facilitating wound healing.

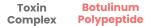


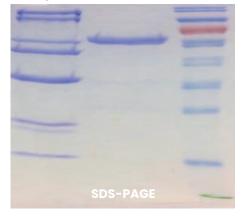


EXOCEAN= Exosomes + Botulinum Polypeptide

Powerful Skin Texture Improvement







Comparison of protein size and purity between Botulinum Polypeptide and Botulinum Type A toxin using SDS-PAGE.



MTD technology, showing very high cell permeability, reaches the epidermal layer effectively.

"EXOCEAN's High-concentration botulinum-derivative ingredient can help improve Skin Texture"





Anti Inflammatory 55%

Wound Healing

69%

Collagen Synthesize

70%

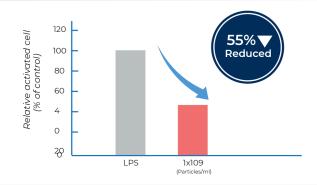
Brightening

50%

EXOCEAN hinders the transformation of macrophages into a dendritic shape induced by LPS*, thereby alleviating the inflammatory response.

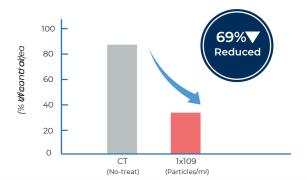
*Lipopolysaccharide (LPS) is the major component of the outer membrane of Gram-negative bacteria and induce of in ammatory.



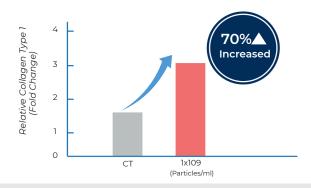


EXOCEAN significantly aids in wound recovery, reducing the wound area by 68.8% and enhancing fibroblast activity by 232%.

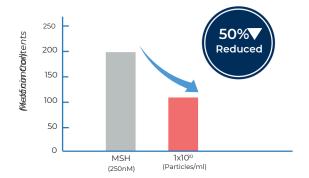




EXOCEAN enhances the production of type I collagen, increasing collagen synthesis by 70% compared to the positive control for up to 48 hours after treatment.



EXOCEAN has the effect of reducing melanin synthesis by $\alpha\text{-MSH}^{**}.$



 $^{**\}alpha$ -melanocyte-stimulating hormone

