

ASCELLOS™ – MSC-DERIVED EXOSOME PRODUCT OVERVIEW

Ascellos™ is a clinical-use topical cosmetic product utilizing Wharton's Jelly-derived Mesenchymal Stem Cell (MSC) exosomes to support tissue enhancement, cellular communication, and regenerative signaling.



PRODUCT OVERVIEW

Ascellos™ is a Cosmetic Topical Product that is in full compliance with US FDA cosmetic regulations, designed to maximize the cell-signaling capabilities of exosomes, delivering the regenerative effects of amniotic fluid and Wharton's Jelly delivered by the FDA-cleared NanoPen®. Processed from unadulterated Exosomes derived from pure amniotic fluid suspension and umbilical cord Wharton's Jelly. This acellular approach is designed for targeted biological support in professional clinical environments.

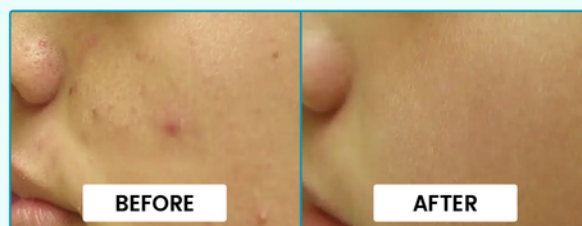
KEY SPECIFICATIONS & CLINICAL ADVANTAGES

- **Source:** Wharton's Jelly-derived Mesenchymal Stem Cells (WJ-MSCs).
- **Formulation:** Concentrated, acellular exosome suspension.
- **Primary Action:** Topical cosmetic product that supports intercellular communication, tissue repair, angiogenesis, and immune modulation.
- **Key Cargo:** Averaging 70 billion protein particles carrying varying exosome cargo of miRNA, mRNA, proteins, lipids, growth factors, peptides, Extracellular Matrix, collagens, and Hyaluronic acid, and over 200 growth factors, 35+ amino acids, collagen types I, II, & V, hyaluronic acid, and microRNAs.
- **Advantage:** Higher exosome yield and enriched regenerative cargo compared to other sources; avoids risks associated with live cell therapy.
- **Use:** For professional use in controlled clinical settings.

MECHANISM OF ACTION

Wharton's Jelly-derived exosomes support regeneration through multiple synergistic mechanisms:

- **Enhanced Cellular Communication:** Transfer proteins, lipids, and nucleic acids (miRNA, mRNA) to influence recipient cell behavior and support post-transcriptional regulation.
- **Promotion of Tissue Repair & Angiogenesis:** Deliver a high abundance of growth factors (IGFBPs, TGF- α , PDGF-AA) shown to promote cell proliferation, migration, and new blood vessel formation.
- **Immune Modulation & Anti-Inflammatory Action:** Contains immunomodulatory cytokines that help reduce local inflammation, modulate immune responses, and promote a pro-healing macrophage phenotype.
- **Extracellular Matrix Support:** Provide collagen and other matrix components to strengthen skin structure, improve elasticity, and support tissue architecture.



INDICATIONS & USE CASES

- Regenerative aesthetic applications for skin rejuvenation.
- Support for tissue repair and wound healing processes.
- Adjunct support in regenerative medical protocols (e.g., post-procedure).
- Aimed at improving skin hydration, elasticity, and the appearance of fine lines.

KEY ACTIVE COMPONENTS & INGREDIENTS

• Wharton's Jelly-Derived Exosomes:

The primary active component, enriched with regenerative proteins (e.g., fibrinogen beta chain) and known for high yield and potent cargo capacity.

• Growth Factors (>200):

Including IGFBPs, TGF- α , and PDGF-AA to support cell growth, migration, and angiogenesis.

• Structural Proteins:

Collagen Types I, II, and V to support skin firmness and elasticity.

• Hydration & Matrix Support:

- **Hyaluronic Acid:** For moisture retention and skin plumping.
- **Amino Acids (35+):** Fundamental building blocks for protein synthesis and skin health.

• Additional Bioactives:

- **Urea:** Supports moisturization and gentle exfoliation.
- **Nucleic Acids (miRNA, mRNA):** Participate in cellular signaling and regulation.

CLINICAL USE & PROTOCOL

- **Application:** For professional use only. A licensed practitioner must determine the administration method and frequency in accordance with specific treatment protocols and applicable regulations (e.g., the Florida Stem Cell Law*).
- **Storage:** Store and handle according to manufacturer guidelines and clinical standards for biologics.
- **Synergistic Use:** This topical cosmetic product may be integrated into comprehensive regenerative treatment plans.



Disclaimer:

This product is intended for professional clinical use. Not intended to diagnose, treat, cure, or prevent any disease.

Specific regulations, such as the Florida Stem Cell Law (under Chapters 458 & 459), and approved IRBs may govern the administration of such products by licensed physicians. Providers are responsible for understanding and complying with all applicable laws and regulations.



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