



Dezawa MuseExosomes®

THE FUTURE OF EXOSOMES

Exosomes are tiny vesicles secreted by cells that play a crucial role in cell-to-cell communication and tissue repair. Dezawa MuseExosomes® offers several advantages over traditional exosomes:

	Dezawa MuseExosomes®	Traditional Exosomes
Biological Activity & Stability	Enhanced stability and resilience. More resistant to degradation and retains biological activity longer in circulation.	Shorter functional half-life, typically cleared within hours to days.
Targeted Homing	Actively home to damaged tissues via specific surface markers, enhancing therapeutic precision.	Passive distribution with no innate targeting ability.
Regenerative Potential	Pluripotent-like regenerative ability - carry signals capable of influencing differentiation into all three germ layers (ectoderm, mesoderm, endoderm).	Limited differentiation signals - restricted to mesodermal - derived tissues (bone, muscle, cartilage, and connective tissue).
Stress Resistance & Stability	Highly stress-resistant due their unique ability to survive and function under oxidative and inflammatory stresses, leading to more resilient exosomes.	Sensitive to environmental stress, reducing efficacy and requiring strict storage conditions.
Immune Compatibility	Low immunogenicity and hypoimmunity, leading to superior clinical safety and fewer immune related complications.	Higher immunogenicity risk, with potential for immune rejection in allogeneic applications.

Claims are based on published studies of Dezawa MuseCells® produced using the licensed intellectual property and exact methodologies of MuseCell Innovations®. Only Dezawa MuseCells® originating from MCI's manufacturing ecosystem and distributed through MCI-designated, licensed partners have the safety and clinical characteristics reported in the research.

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