



SuperShot®: A More Complete Platelet-Rich Plasma

In Standard Platelet-Rich Plasma (PRP) centrifugation, potent biological agents are discarded with the Platelet-Poor Plasma (PPP).

Blood plasma is rich in low density exosomes. Exosomes transport proteins and microRNAs that are essential for tissue regeneration, healing, vascularization, and rejuvenation.

Standard PRP centrifugation does not isolate exosomes and the important therapeutic molecules they contain within.

With SuperShot® technology, exosomes are quickly isolated and incorporated into your PRP, resulting in a more complete PRP therapy.

SuperShot®: Fast, Easy, & Autologous

Fast – SuperShot® adds just one spin to the PRP preparation process.

Easy – SuperShot® requires minimal training and no additional equipment.

Autologous – SuperShot® isolates key molecules from the patient's own plasma.

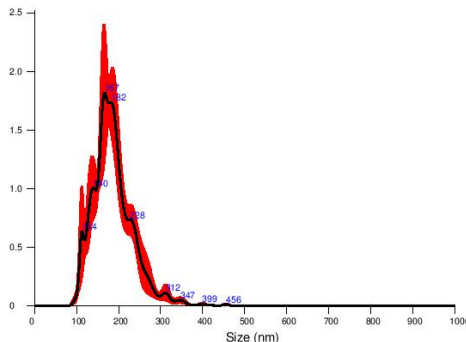


SuperShot®: More Exosomes

Low-density exosomes are isolated from platelet-poor plasma with SuperShot®.

Distinct types of extracellular vesicles are isolated and added to PRP, including exosomes.

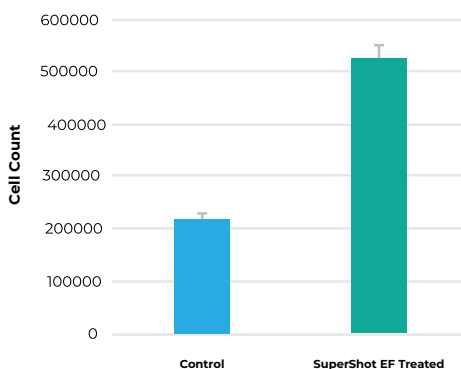
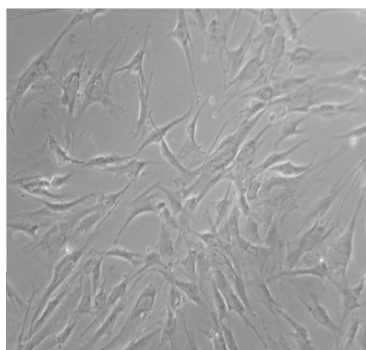
845 billion unique extracellular particles (169B/mL) with an average diameter of 130nm were isolated from 5cc of platelet-poor plasma by the SuperShot® process.



Exomes isolated from platelet-poor plasma by SuperShot®, analyzed by the NanoSight imaging device.

SuperShot®: Stem Cell Support

The exosomes isolated with SuperShot® from Platelet-Poor Plasma **stimulated Mesenchymal Stem Cell growth** in 5 days of cell culture, indicating that exosomes isolated by SuperShot® supports stem cell growth.



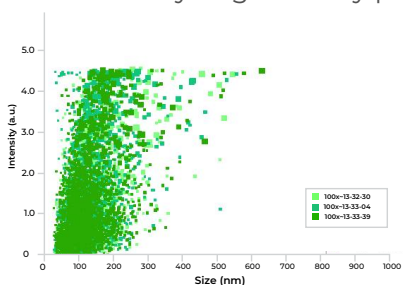
Bone marrow Mesenchymal Stem Cells cultured for 5 days in control conditions, or with the addition of the exosomes isolated from platelet-poor plasma produced from PRP process. The PureSpin® PRP centrifugation system was used to process peripheral whole blood from a healthy donor.



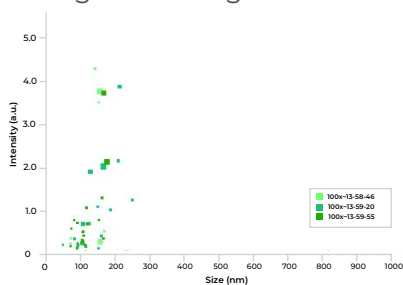
SuperShot®: Autologous & Appropriate

The exosomes isolated by SuperShot® are autologous and collected and used at point-of-care, not shipped, or stored before use.

Exosomes and the microRNAs they contain within are damaged by freezing and lyophilization. Aside from introducing serious risks such as infection from prions or viruses, allogeneic products are functionally degraded by processing and storage.



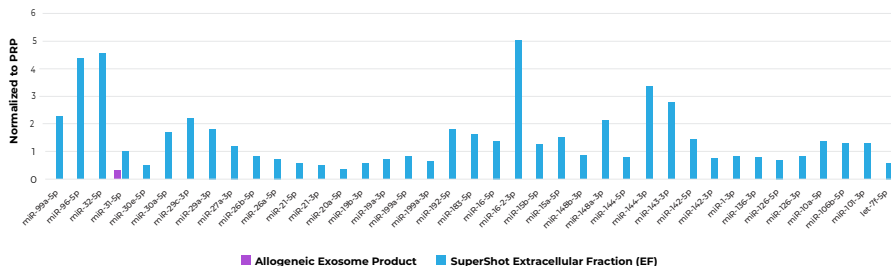
SuperShot® Exosomes



Allogeneic Exosome Product

Exosomes isolated from platelet poor plasma by SuperShot® vs. allogeneic mesenchymal stem cell derived exosome product, analyzed by the NanoSight imaging device. SuperShot® EF included 78,000,000,000 particles/mL; MSC exosome product included 540,000,000 particles/mL.

The leading allogeneic mesenchymal stem cell exosome product contained just 0.6% of the exosomes isolated by SuperShot® from 5cc of Platelet-Poor Plasma.



■ Allogeneic Exosome Product ■ SuperShot Extracellular Fraction (EF)

MicroRNAs identified in extracellular fraction isolated from platelet poor plasma by SuperShot® vs. allogeneic mesenchymal stem cell derived exosome product via single-end sequencing on an Illumina HiSeq 2500. PureSpin® PRP system was used to process peripheral whole blood from a healthy donor.

The leading allogeneic mesenchymal stem cell-derived exosome product contained trace levels of microRNAs compared to those detected in the extracellular fraction isolated by SuperShot® from 5cc of Platelet-Poor Plasma.

The SuperShot® Difference

In a standard PRP preparation, whole blood is centrifuged into three components, separated by density: red blood cells, Platelet-Rich Plasma, and Platelet-Poor Plasma.

In SuperShot® PRP, the Platelet-Poor Plasma is centrifuged one additional time using the SuperShot® patent-pending aqueous two-phase system, that precipitates low-density lipid-rich exosomes from the Plasma.



The exosomes isolated by SuperShot® are added to the PRP, resulting in a more complete PRP.

SuperShot®: Simple, Self, & Safe

SuperShot® is quick and easy. With just one additional 1-minute spin, SuperShot® adds hundreds of billions of therapeutic exosomes (and the important signaling molecules they contain within) to your PRP.

SuperShot® leverages the patient's own biology. Isolation of the low-density exosome fraction from the patient's plasma results in a more complete PRP.

SuperShot® does not use allogeneic or xeno-sourced materials. SuperShot® PRP is 100% autologous, which means **no risk from donor pathogens, unknown sourcing, unproven allogeneic biologics, or immuno-rejection.**



SuperShot PRP
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