

CELLTERMI NX Plus and HS Exosomes - A Deeper Dive

- The source of human-derived exosomes is from human umbilical cord-derived Mesenchymal Stem Cells. These cells are carefully and specifically isolated from the umbilical cord tissue of healthy full-term neonates.
- All donor tissue acquisition, screening and subsequent cell banking processes adhere (without compromise) to strict international medical regulations and the Ministry of Food and Drug Safety (MFDS) guidelines. Manufacturing is fully executed under Good Manufacturing Practice conditions to prevent any risk of cross-contamination and to guarantee maximum biological safety.
- Naturally occurring epidermal stem cells are ideal for dermatological anti-aging, but are difficult to isolate, maintain and replicate. CHA Biotech has developed a process to biomechanically differentiate harvested UC-MSCs into Epidermal Progenitor Cells (over a 21-28 day period).
- Harvested cells are thoroughly washed to eliminate any unwanted trace materials or differentiation factors. The culture is then replenished with chemically defined, serum-free media for 48-72 hours.
- Centrifugation (at 3,000 RPMs) clears out macroscopic cell debris followed by microfiltration through a very fine sterile filter.
- Transdermal delivery and target cell interaction is optimized with a purified consistent particle size of 160.0 - 182.8 nm (which is universally considered ideal for exosomes).
- The advanced purification process creates a high-density concentration that creates the clinical efficacy and potency required for medical-grade skin applications.

Please see the CELLTERMI Presentation at <https://eortho.com/skincare> for more details.

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