

# Stem Cell-Derived Purified Exosomes

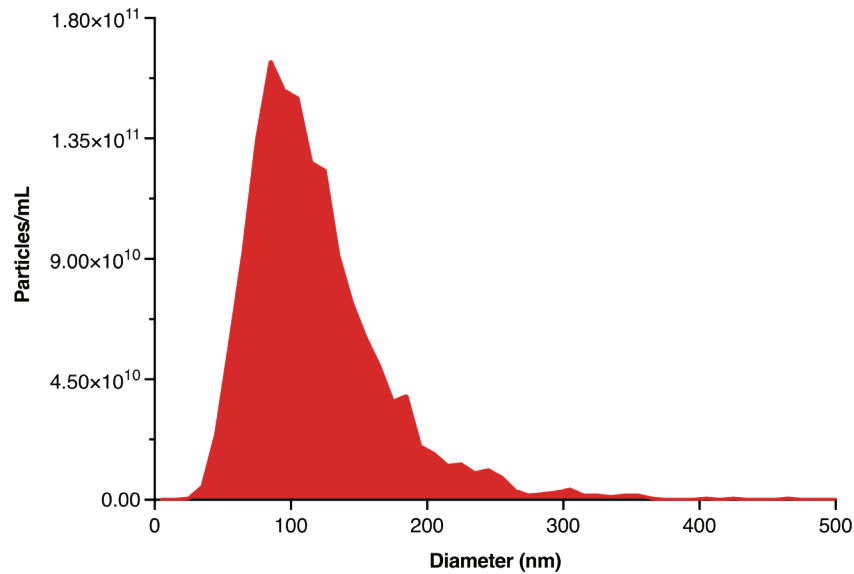
NORGEN BIOTEK, READY-TO-USE HUMAN EXOSOMES DERIVED FROM ADIPOSE-DERIVED MESENCHYMAL CELLS (AD-MSC).



- ✓ Derived from standardized human adipose-derived Mesenchymal Stem Cells (AD-MSC)
- ✓ Purified using Norgen Biotek optimized EV production platform
- ✓ Supported by first in class exosome characterization.
  1. Characterized for size distribution, intactness and concentration by nano particle tracking analysis (NTA)
  2. CD63 and CD9 Western Blot analysis and Flow Cytometry validated

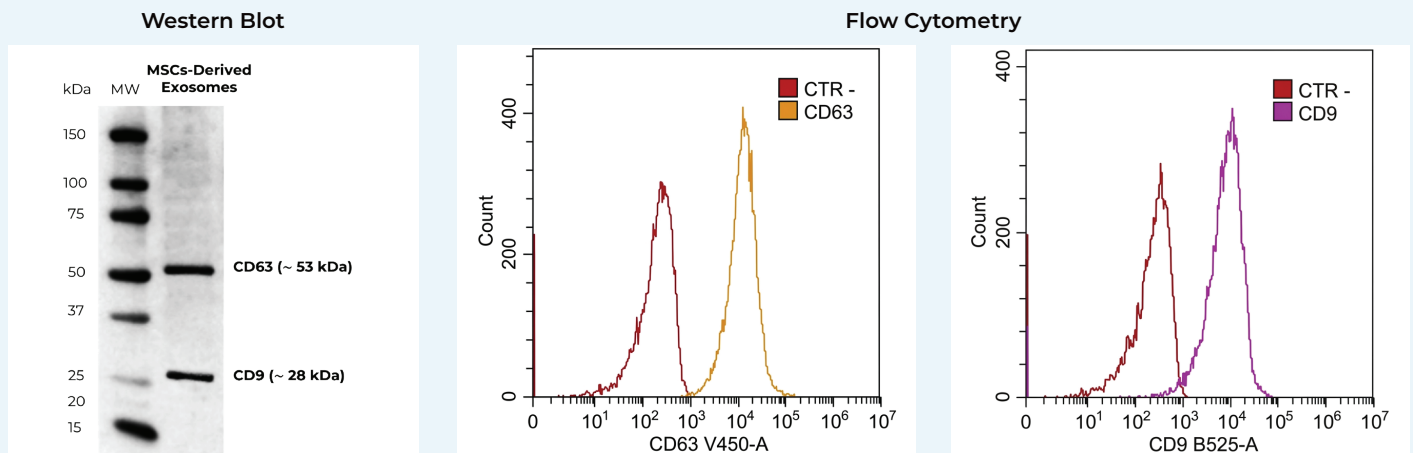


# High-Purity Exosomes Standards



## PARTICLE SIZE DISTRIBUTION AND CONCENTRATION

**Figure 1. Biophysical Characterization of Purified Adipose-derived Mesenchymal Cell (AD-MSC) Exosomes** High-purity exosomes were isolated from Adipose-derived Mesenchymal cells. Advanced Nanoparticle Tracking Analysis (NTA) using ZetaView® Evolution (Particle Metrix) confirms a highly concentrated population of  $1.51 \times 10^{12}$  particles/mL. The total particle yield exceeds  $1 \times 10^9$  per unit. The vesicles exhibit a precise size distribution with a mode of 94.2 nm and a median of 107.3 nm. Each 500  $\mu$ L fill volume contains 50  $\mu$ g of protein, ensuring a clean, homogeneous population optimized for high-performance research applications.



## EXOSOME MARKER CHARACTERIZATION

**Figure 2 Marker Validation:** Purified exosomes were analyzed by Western blot and Flow Cytometry (CD63/CD9). Both approaches confirmed strong marker expression, confirming exosome purity.

## ADVANTAGES YOU WILL BRING TO YOUR LAB

- ✓ **Advancing regenerative medicine research** through the study of extracellular vesicle-mediated signaling involved in tissue repair and cellular communication.
- ✓ **Enabling cell-free therapeutic research**, capturing key functional signals of mesenchymal stem cells without the use of live cells.
- ✓ **Supporting studies on immune modulation** and inflammation, two central processes in many pathological conditions.
- ✓ **Providing a standardized extracellular vesicle source** for analytical workflows such as **flow cytometry, nanoparticle tracking analysis (NTA), and other EV characterization methods.**
- ✓ **Facilitating research on extracellular vesicle biology** and their role in intercellular communication.

## QUALITY CONTROL:

All cells have been screened negative for HIV-1, HIV-2, Hep-B and Hep-C. All isolated and concentrated exosomes undergo, particle count and concentration, mode and median size, and RNA and protein concentration.

## HANDLING PROCEDURE:

Preparation of exosomes:

1. Thaw on ice
2. Mix by pipetting up and down
3. Create multiple aliquots for use and avoid freeze thaw

## PRODUCT INFORMATION:

Metric	Specification
Source	Adipose-derived Mesenchymal cells
Storage	-20°C to -80°C
Total Particle Count	> 1 x 10 <sup>9</sup>
Shelf Life	6 months with proper storage
Shipping	Dry Ice
Protein Content	50 µg per 500 µL

# Ordering Information

Name	QTY	Cat. #
Purified Exosomes from Human Adipose-Derived MSCs	1 vial (500 µl)	76550

Bulk order available on request.

## Order Today!

Order Norgen's Purified Stem Cell-Derived Exosomes today.

### Three ways to order

Visit [norgenbiotek.com](http://norgenbiotek.com)

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