



RoosterVial™ Exosomes

COLLECTED FROM XENO-FREE HUMAN MESENCHYMAL STEM/STROMAL CELLS & MEDIA



Ready-to-use exosomes that streamline R&D by delivering consistent material through RoosterBio's robust 3D manufacturing system.

The RoosterBio manufacturing system is designed to seamlessly produce and process materials from cell culture to collection. However, we understand that manufacturing EVs / Exosomes requires time, resources, equipment, and expertise which can be a lot for researchers looking to test exosomes in their R&D programs. RoosterVial Exosomes solve this problem by providing consistent, ready-to-use exosomes that go from freezer to assay in very little time. Each vial leverages our advanced equipment capabilities and expertise so you can see if exosomes work for your research before committing to cell culture and EV manufacturing processes.

Each lot is produced by RoosterBio's robust EV manufacturing process in a 3D bioreactor system before downstream processing. Extracellular Vesicles are clarified, concentrated using TFF, and filtered with 0.2 µm filtration where they finish at a concentration of >5E9 particles per mL. EVs are analyzed for size, concentration, purity, tetraspanin surface markers (CD9, CD63, CD81), and cytoplasmic marker TSG101 before filling with >80% lipidated exosomes per vial based on purity figures.

PRODUCT FEATURES





Xeno-Free Manufacturing Process

3D Bioreactor Manufacturing System

>5E9 Particles per/mL

>80% Lipidated Exosomes per Vial

PRODUCT BENEFITS

-  Ready-to-Use Exosomes for R&D
-  Consistency Backed by Best-In-Class Characterization
-  Streamline Research by Cutting the Cell Culture
-  Rapidly Determine if Exosomes Are Right For Your Program

QUICKLY ACCESS BILLIONS OF R&D GRADE hMSC-DERIVED EXOSOMES.

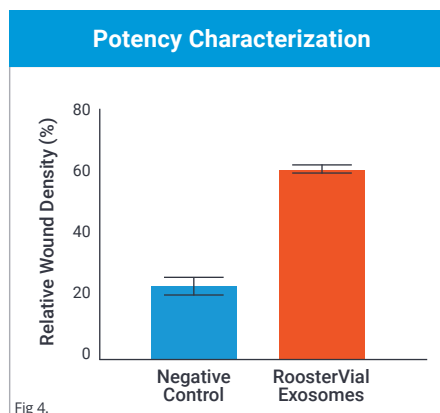
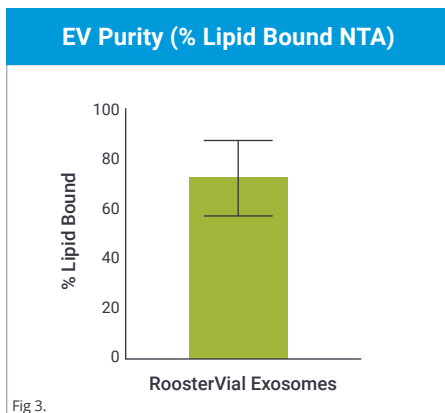
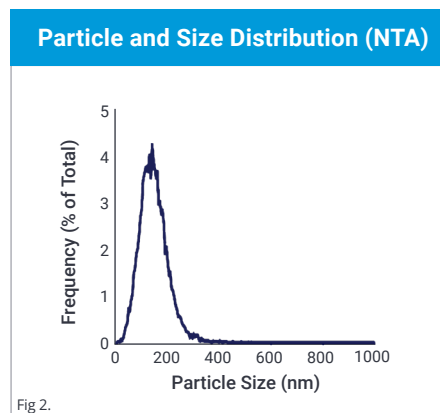
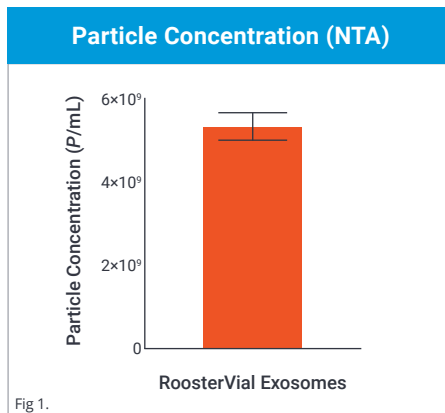


Fig 1-3. Representative sample of RoosterVial Exosomes (E40059UC) collected from XF RoosterVial-hUC (xeno-free, C43001UC/C43002UC) have a vialled particle concentration of 5.38E9 as measured by NTA, mean size of 149.8 nm, and EV Purity (% lipidated particles) of 83.1% as measured by NanoFCM

Fig 4. Representative sample of RoosterVial Exosomes (E40059UC) collected from XF RoosterVial-hUC (xeno-free, C43001UC/C43002UC) demonstrate a 62.9% closure in scratch assays.

CONSISTENTLY MANUFACTURED EXOSOMES RIGHT-FIT FOR IMMEDIATE USE IN YOUR APPLICATION

Applications for RoosterVial™ Exosomes

RAPID R&D EVALUATION | IN VITRO ASSAY DEVELOPMENT | IN VIVO MODELS

EXAMPLE LOT DATA

ATTRIBUTE	RESULT
Storage Temperature	-80° C
Particle Concentration (= #/vial Given 1mL Fill)	5.38 E9
% Lipidated Particles	83.2%
Size Distribution: Mean Median Mode	149.8 nm 141.2 nm 137.4 nm
CD9 (Tetraspanin)	+
CD63 (Tetraspanin)	+
CD81 (Tetraspanin)	+
TSG101 (Cytosolic Marker)	+
Scratch	63% Relative Closure

PRODUCT INFORMATION

PRODUCT	PARENT CELL / TISSUE TYPE	SKU / CATALOG #	UNIT SIZE	INTENDED USE
RoosterVial Exosomes	Human Umbilical Cord-Derived hMSC	E43110UC	1mL vial of >5E9 particles with >80% lipidated exosomes	For R&D Use Only
RoosterVial Exosomes	Human Bone Marrow-Derived hMSC	E41059BM	1mL vial of >5E9 particles with >80% lipidated exosomes	For R&D Use Only
RoosterVial Exosomes	Human Adipose-Derived hMSC	E42059AD	1mL vial of >5E9 particles with >80% lipidated exosomes	For R&D Use Only

QuickShip™ Exosomes are available in multiple tissue sources, downstream processes, and lot sizes. Contact us for more information.



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RoosterBio, Inc is a privately held manufacturing platform technology company based in Frederick, MD focused on accelerating the development of a sustainable regenerative medicine industry, one customer at a time.