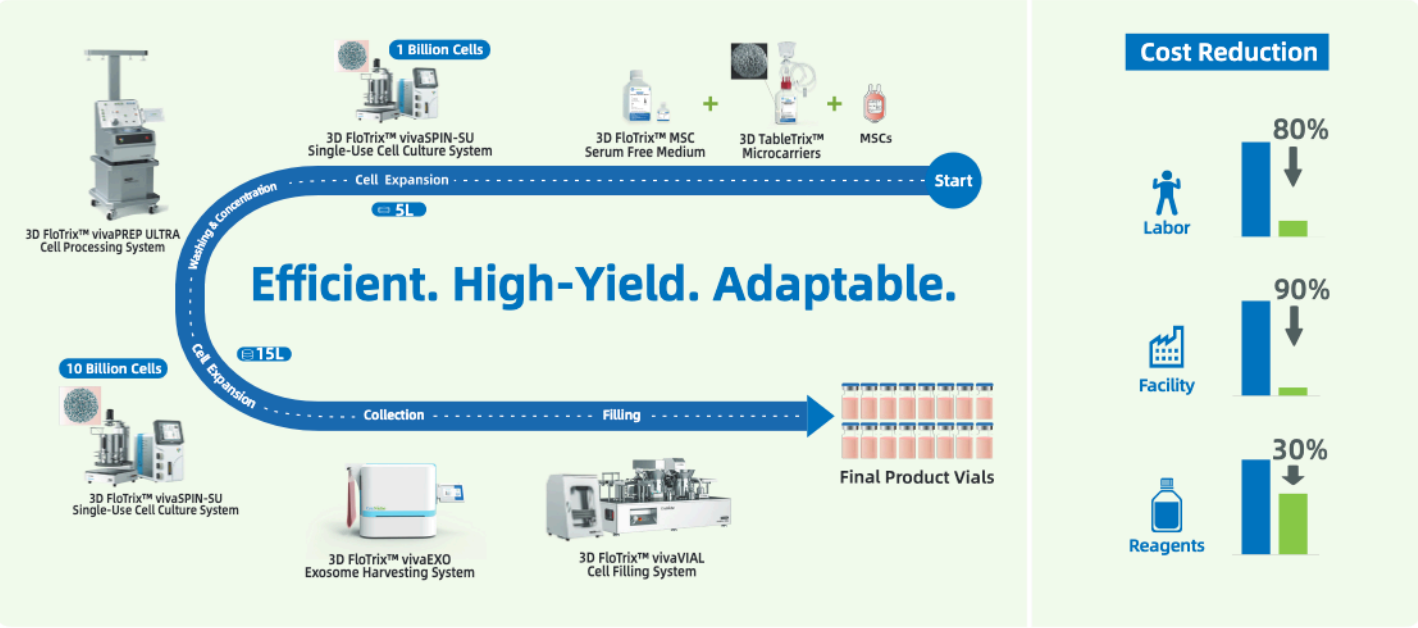


3D FloTrix™ Exosome Mass Production Solution



Ordering Information

Model	Product Name	Specification
FTVE10	3D FloTrix™ vivaEXO Exosome Harvesting System	1 unit
R010-CLR-02	3D FloTrix™ vivaEXO Exosome Processing Kit-CLR	CLR module *1
R010-STR-01	3D FloTrix™ vivaEXO Exosome Processing Kit-STR	STR module *1
R010-R-01	3DFloTrix™ vivaEXO Exosome Processing Storage Bag(10L)	1 set/bag
R020-00-03	3D FloTrix™ Single-Use Storage Bag (10L)	1 set/bag, 2 C-Flex & male/female luer
R011-PUR-02	3D FloTrix™ vivaEXO Exosome Processing Kit-PUR02	1 set of PUR, small MWCO
R011-PUR-03	3D FloTrix™ vivaEXO Exosome Processing Kit-PUR03	1 set of PUR, medium MwcO
R012-VE-03	3D FloTrix™ 3-Port GL45 Cap with Tubes	1 pc/set



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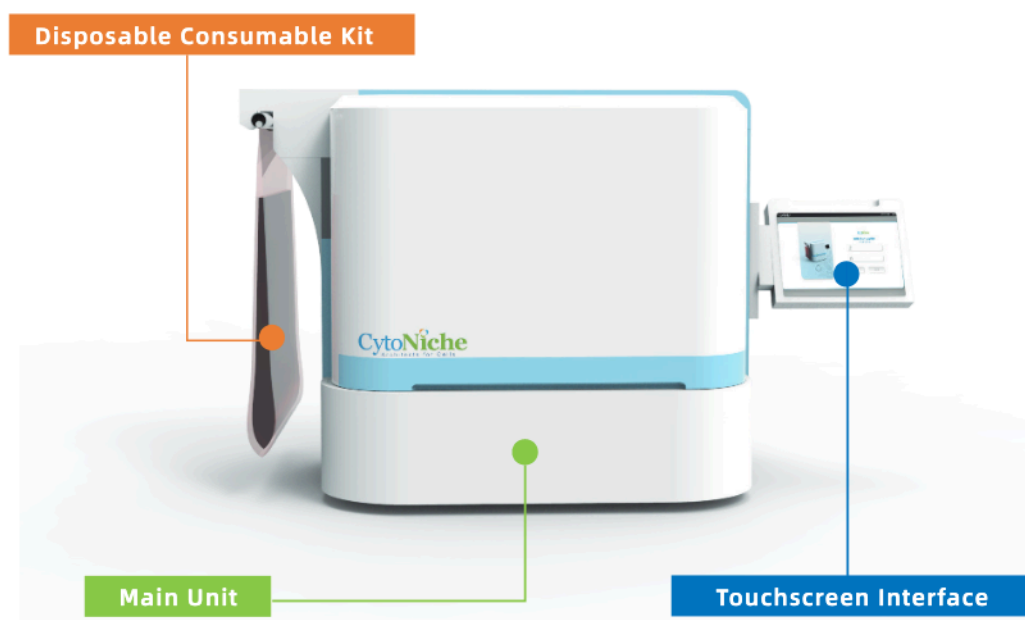
3D FloTrix™ vivaEXO Exosome Harvesting System



CytoNiche Biotech Pte. Ltd.

3D FloTrix™ vivaEXO Exosome Harvesting System

3D FloTrix™ vivaEXO Exosome Harvesting System is an automated solution for large-scale concentration and enrichment of exosomes using multi-stage separation technology. Designed to meet modern medical and hygiene standards, this system adheres to GMP requirements. It enables real-time parameter recording and precise control, all presented through a user-friendly touchscreen interface.



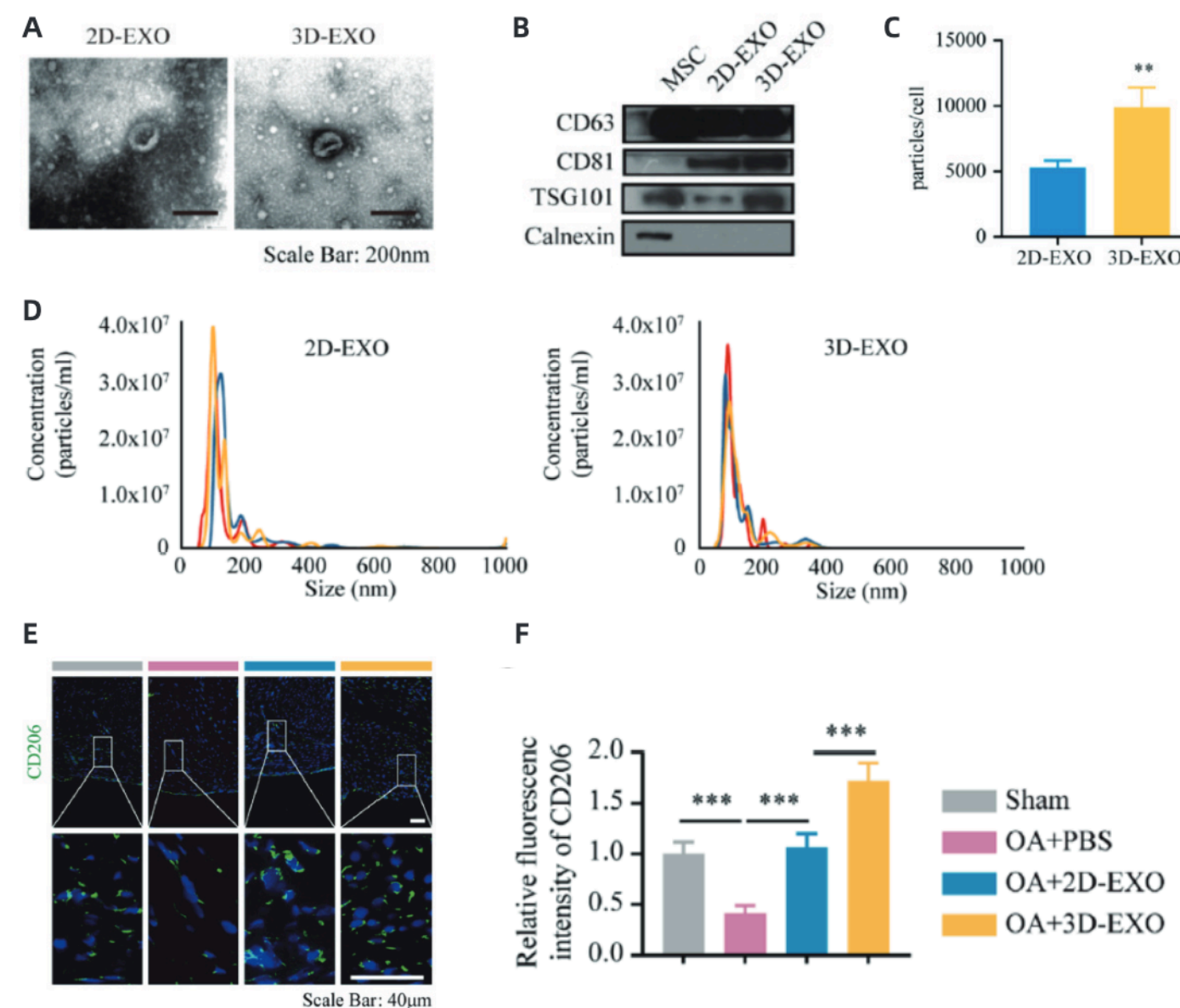
Product Features

- Efficient Processing**
to process a 10L of sample solution in approximately 1 hour
- Easy Operation**
Pre-assembled, disposable consumable kits, ready to use with minimal setup
- Automated Workflow**
Programmable multi-stage processing with automated start functionality
- High Concentration**
Enables >20× concentration, concentrating 10 L of stock solution to a final volume of <500 mL
- GMP Compliance**
Features include user management with customizable permission levels, comprehensive data logging, and tamper-proof audit trails
All records, including alarms and abnormal parameters, can be exported
- Process Monitoring**
Monitors volume change and process status in real time
Precise control of liquid pressure ensures optimal balance between exosome quality and processing time

Application Case

Utilizing the 3D FloTrix™ platform for large-scale MSC culture, exosomes harvested using vivaEXO™ meet established characterization criteria, as reported in *Chemical Engineering Journal*.

- A. TEM image shows the typical morphology of exosomes.
- B. The exosomes exhibit high expression of protein biomarkers such as TSG101, CD81, and CD63.
- C. Yield of exosomes from 3D FloTrix™ platform is significantly higher than 2D planar cultures.
- D. The particle size of the exosomes is predominantly distributed between 30-150 nm.
- E-F. Exosomes derived from 3D FloTrix™ platform have more pronounced effects in promoting M2 polarization of macrophages (CD206 expression) in rat knee osteoarthritis (KOA) models.



Data adopted from *Chem Eng J* 497 (2024) 154432.