

# A Magnetic Separation-Assisted High-Speed Homogenization Method for Large-Scale Production of Endosome-Derived Vesicles

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## Materials

Name	Company	Catalog Number	Comments
Annexin antibody	ABclonal	A11235	Western blotting
BCA assay kit	Beyotime	P0012	Protein concentration assay
Calnexin	GeneTex	HL1598	Western blotting
CD63 antibody	ABclonal	A19023	Western blotting
Cell lysis buffer for Western and IP	Beyotime	P0013	Western blotting
Centrifuge	Beckman	Allegra X-30R	Cell centrifuge
CO <sub>2</sub> incubator	Thermo		Cell culture
Confocal laser scanning fluorescence microscopy	NIKON	A1 HD25	Photo the fluorescence picture
DMEM basic (1x)	GIBCO	C11995500BT	Cell culture
Dynamic light scattering (DLS)	Malvern	Zetasizer Nano ZS ZEN3600	Diameter analysis
Electric glass homogenizer	SCIENTZ(Ningbo, China)	DY89-II	Low-speed homogenization
Exosome-depleted FBS	system Bioscience	EXO-FBS-50A-1	Cell culture
High-speed homogenizer	SCIENTZ(Ningbo, China)	XHF-DY	High-speed homogenization
Magnetic grate	Tuohe Electromechanical Technology (Shanghai, China)	NA	Magnetic separation
PKH26 Red Fluorescent Cell Linker Kit for General Cell Membrane Labeling	Sigma-Aldrich	PKH26GL-1KT	The kit contains PKH26 cell linker in ethanol and Diluent C
Polylysine-modified iron oxide nanoparticles (IONPs)	Zhongke Leiming Technology (Beijing, China)	Mag1100-10	Cell culture
Potassium chloride	Aladdin	7447-40-7	Cell hypotonic treatment
Protease inhibitor cocktail	Beyotime	P1030	Proteinase inhibitor
Sodium citrate	Aladdin	7447-40-7	Cell hypotonic treatment
Transmission electron microscopy (TEM)	JEOL	JEM-2100plus	Morphology image
Ultracentrifuge	Beckman	Optima XPN-100	Exosome centrifuge

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ZetaView nanoparticle tracking analyzers	Particle Metrix	PMX120	Nanoparticle tracking analysis
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