

Large-Scale Preparation of Synovial Fluid Mesenchymal Stem Cell-Derived Exosomes by 3D Bioreactor Culture

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Materials

Name	Company	Catalog Number	Comments
BCA assay kit	ThermoFisher	23227	Protein concentration assay
Blood agar plate	Nanjing Yiji Biochemical Technology Co. , Ltd.	P0903	Bacteria culture
CD105 antibody	Elabscience	E-AB-F1243C	Flow cytometry
CD34 antibody	Elabscience	E-AB-F1143C	Flow cytometry
CD45 antibody	BD Bioscience	555483	Flow cytometry
CD63 antibody	Abclonal	A5271	Western blotting
CD73 antibody	Elabscience	E-AB-F1242C	Flow cytometry
CD81 antibody	ABclonal	A5270	Western blotting
CD9 antibody	Abclonal	A1703	Western blotting
CD90 antibody	Elabscience	E-AB-F1167C	Flow cytometry
Centrifuge	Eppendorf	Centrifuge 5810R	
CO2 incubator	Thermo		Cell culture
Confocal laser scanning fluorescence microscopy	ZEISS	LSM 800	
Cytodex	GE Healthcare		Microcarrier
Dil	ThermoFisher	D1556	Exosome label
EZ-PCR Mycoplasma detection kit	BI	20-700-20	Mycoplasma detection
Flowcytometry	Beckman		MSC identification
Gene Pulser II System	Bio-Rad Laboratories	1652660	Gene transfection
GraphPad Prism 8.0.2	GraphPad Software, Inc.	Version 8.0.2	
HLA-DR antibody	Elabscience	E-AB-F1111C	Flow cytometry
Lowenstein-Jensen culture medium	Nanjing Yiji Biochemical Technology Co. , Ltd.	T0573	Mycobacterium tuberculosis culture
MesenGro	StemRD	MGro-500	MSC culture
Nanosight NS300	Malvern	Nanosight NS300	Nanoparticle tracking analysis

NTA 2.3 software	Malvern		Data analysis
Odyssey FC	Gene Company Limited		Fluorescent western blotting
OptiPrep electroporation buffer	Sigma	D3911	Gene transfection
Protease inhibitors cocktail	Sigma	P8340	Proteinase inhibitor
RNase A	Qiagen	158924	Removal of RNA
Sabouraud agar plate	Nanjing Yiji Biochemical Technology Co., Ltd.	P0919	Fungi culture
TEM		JEM-1200EX	
The Rotary Cell Culture System (RCCS)	Synthecon	RCCS-4HD	3D culture
Ultracentrifuge	Beckman	Optima XPN-100	Exosome centrifuge