

Labeling of Extracellular Vesicles for Monitoring Migration and Uptake in Cartilage Explants

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Materials

Name	Company	Catalog Number	Comments
Material			
1.5 mL Centrifuge tube	SPL life sciences	PLC60015	
1 mL Syringe BD Plastipak	BD	303174	
2-Propanol (Isopropanol)	Panreac AppliChem	1.310.901.211	Prepared at 20% with Milli-Q water
96-well culture plate	SPL life sciences	PLC30096	
Absolute ethanol Pharnpur	Scharlab	ET0006005P	Used to prepare 96% and 75% ethanol with Milli-Q water
Biopsy Punch with plunger 3 mm	Scandidact	MTP-33-32	
Bovine serum Albumin (BSA)	Sigma-Aldrich	A7030	Prepared at 5% with PBS
Cartilage explants	IdISBa Biobank		
Concentrating tube 15 mL Nanosep 100 kD Omega	Pall	MCP100C41	
Concentrating tube 500 µL Nanosep 100 kD Omega	Pall	OD003C33	
Cover glass 24 x 60 mm	Deltalab	D102460	
DMEM-F12 -GlutaMAX medium	Biowest	L0092	
Dulbecco's PBS (1x)	Capricorn Scientific	PBS-1A	
Embedded paraffin tissue blocks	IdISBa Biobank		Fee for service
Exo-spin mini-HD columns	Cell guidance systems	EX05	
Feather S35 Microtome Blade	Feather	43037	
Filtropur S 0.2 µm syringe filter	Sarstedt	83.1826.001	
Fluoroshield with DAPI	Sigma-Aldrich	F-6057	
Oncostatin M Human	Sigma-Aldrich	O9635-10UG	Prepare a stock solution to a final concentration of 0.1 µg/µL diluten in PBS-0.1% BSA
Paraformaldehyde	Sigma-Aldrich	8.18715.1000	Prepared at 4% with PBS and stored at 4 °C

Penicillin-Streptomycin Solution 100x	Biowest	L0022	
PKH26 Red Fluorescent Cell Linker Kit for General Cell Membrane Labeling	Sigma-Aldrich	MINI26	PKH26 and Dliuent C included
Sodium citrate dihydrate	Scharlab	SO019911000	
Superfrost Plus Microscope Slides	Thermo Scientific	J1800AMNZ	
TNF α	R&D systems	210-TA-005	Prepare a stock solution to a final concentration of 0.01 $\mu\text{g}/\mu\text{L}$ diluted in PBS-0.1% BSA
Triton X-100	Sigma-Aldrich	T8787	Used to prepare a 0.1% Triton-0.1% sodium citrate solution with Milli-Q water
Xylene	Scharlab	XI0050005P	
Equipment			
Centrifuge 5430 R	Eppendorf	5428000210	F-45-48-11 rotor
NanoSight NS300	Malvern	NS300	Device with embedded laser at $\lambda=532$ nm and camera sCMOS
Shandon Finesse 325 Manual Microtome	Thermo Scientific™	A78100101	
TCS-SPE confocal microscope	Leica Microsystems	5200000271	