

Materials List for:

Biofunctionalized Prussian Blue Nanoparticles for Multimodal Molecular Imaging Applications

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Materials

Name	Company	Catalog Number	Comments
Potassium hexacyanoferrate (II) trihydrate (K ₄ Fe(CN) ₆ ·3H ₂ O)	Sigma-Aldrich	P9387	
Manganese (II) chloride tetrahydrate (MnCl ₂ ·4H ₂ O)	Sigma-Aldrich	221279	
Gadolinium (III) nitrate hexahydrate (Gd(NO ₃) ₃ ·6H ₂ O)	Sigma-Aldrich	211591	
Iron (III) chloride hexahydrate (FeCl ₃ ·6H ₂ O)	Sigma-Aldrich	236489	
Sodium chloride (NaCl)	Sigma-Aldrich	S9888	
Anti-NG2 Chondroitin Sulfate Proteoglycan, Biotin Conjugate Antibody	Millipore	AB5320	
Biotinylated Anti-Human Eotaxin-3	Peprotech	500-P156GBT	
Neuro-2a Cell Line	ATCC	CCL-131	
BSG D10 Cell Line	Lab stock	---	
OE21 Cell Line	Sigma-Aldrich	96062201	
SUDIPG1 Neurospheres	Lab stock	---	
Eo1 Cell Line	Sigma-Aldrich	94042252	
Poly(L-lysine) hydrobromide	Sigma-Aldrich	P1399	
Formaldehyde	Sigma-Aldrich	F8775	
Bovine serum albumin	Sigma-Aldrich	A2153	
Aminoactinomycin D	Sigma-Aldrich	A9400	
Triton X-100	Sigma-Aldrich	X100	
CellTrace Calcein Red-Orange, AM	Life Technologies	C34851	
Avidin-Alexa Fluor 488	Life Technologies	A21370	
Centrifuge	Eppendorf	5424	
Peristaltic Pump	Instech	P270	
Zetasizer Nano ZS	Malvern	ZEN3600	
Sonicator	QSonica	Q125	
Hot Plate/Magnetic Stirrer	VWR	97042-642	
Ultra Clean Aluminum Foil	VWR	89107-732	
Vortex Mixer	VWR	58816-121	
1.7 ml conical microcentrifuge tubes	VWR	87003-295	

15 ml conical centrifuge tubes	VWR	21008-918	
Tube holders	VWR	82024-342	
Disposable plastic cuvettes	VWR	7000-590 (/586)	
Zetasizer capillary cell	VWR	DTS1070	
Centrifugal Filters, 0.2 micrometer spin column	VWR	82031-356	
96-well cell culture tray	VWR	29442-056	
Trypsin EDTA 0.25% solution 1x	JR Scientific	82702	
Cell Culture Grade PBS (1x)	Life Technologies	10010023	
XTT Cell Proliferation Assay Kit	Trevigen	4891-025-K	
T75 Flask	89092-700	VWR	
Dulbecco's Modified Eagle's Medium	Biowhitaker	12-604Q	
Fetal Bovine Serum	Life Technologies	10437-010	
Pen-Strep 1x	Life Technologies	15070063	
Fluoview FV1200 Confocal Laser Scanning Microscope	Olympus	FV1200	
Chambered Microscope Slides	Thermo Scientific	154534	
Micro Cover Glasses, Square, No. 1.5	VWR	48366-227	
Microscope Slides	VWR	16004-368	
RPMI	Sigma-Aldrich	R8758	
Agarose	Sigma-Aldrich	A9539	
FACSCalibur Flow Cytometer	BD Biosciences		
3 T Clinical MRI Magnet	GE Healthcare		
100 ml round-bottom flask			