

Materials List for:

Optimizing Attachment of Human Mesenchymal Stem Cells on Poly(ϵ -caprolactone) Electrospun Yarns

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Materials

Name	Company	Catalog Number	Comments
Distilled water	in-house supply	n/a	
Ethanol	Merck	1117271000	
Phosphate Buffered Saline solution	Life Technologies	70013016	
Human mesenchymal stem cells	PromoCell GmbH	C-12974	
MSC culture media	PromoCell GmbH	C-28010B	Warmed to 37 °C before use
Supplement mix	PromoCell GmbH	C-39810	Add to culture media
Antibiotic/antimycotic mix	Sigma-Aldrich	A5955	Add to culture media
Trypsin (0.05%) EDTA (0.02%)	Sigma-Aldrich	59417C	Warmed to 37 °C before use
Cell culture flasks (T75)	Becton Dickinson Ltd	353110	
Low binding 6-well plates	Costar Corning	3471	
6-well CellCrowns	Scaffdex	C00003S	
Petri-dish 50 ml deep	Sterilin	124	
PTFE troughs	in-house production	n/a	
Disposable RCCS vessels 10 ml	Synthecon	D-410	
4 Vessel Rotary Cell Culture System bioreactor	Synthecon	RCCS-4DQ	
Shaker plate	Stuart	SSM1	Mini Orbital Shaker
Haemocytometer	Digital Bio	DHC-F01	Disposable C-Chip
Centrifuge tube	Deltalab	352096, 429901	15 ml and 50 ml
Centrifuge	Hettich	Rotafix 32 A	
Syringe 3 ml	Shield Medicare Ltd	3039820	
Pipettes	Sterilin	40305, 47310, 40125	5, 10 and 25 ml
Gilson pipettes	SLS	F144801, F144802, F123600, F123601, F123602	P2 - P1000
Pipette tips	SLS	PIP7852, PIP7834, PIP7840	
Micro test tube 1.5 ml	Eppendorf	30125.15	
Triton X-100	Sigma	9002-93-1	
PicoGreen Assay	Invitrogen	P7589	Assay set-up in the dark
Black 96-well plate	Greiner Bio One	655086	
Fluorescent plate-reader	BGM Labtech	FLUOstar Optima	
Glutaraldehyde 25%	TAAB Laboratories	G002	Made to a concentration of 1.5% v/v in PBS
Hexamethyldisilazane (HMDS)	Sigma	999-97-3	
Aluminium stubs (SEM)	Agar Scientific	G301	
Carbon tabs (SEM)	Agar Scientific	G3347N	

Gold sputter coater	Edwards	S150B	
Scanning Electron Microscope (SEM)	Phenom World	Phenom Pro	