

Materials List for:

Self-reporting Scaffolds for 3-Dimensional Cell Culture

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Materials

Name	Company	Catalog Number	Comments
Ethanol	Fisher	32221	
Anhydrous dimethylformamide (DMF)	Sigma	270547	
Ammonium hydroxide 50% (v/v) aqueous solution	Alfa Aesar	35574	diluted to 30% (v/v) with pure water
TEOS	Sigma	13190-3	
3-Aminopropyltriethoxysilane (APTES)	Sigma	A3648	
5-(and-6)-carboxyfluorescein, succinimidyl ester (FAM-SE)	Invitrogen	C1311	
6-carboxytetramethylrhodamine, succinimidyl ester (TAMRA-SE)	Invitrogen	C1171	
Sodium phosphate monobasic (0.2 M)	Sigma Aldrich	S-9638	
Sodium phosphate dibasic (0.2 M)	Sigma Aldrich	S-0876	
NaOH	Sigma Aldrich	S8045	
Trypsin/EDTA	Sigma Aldrich	T4174	
Penicillin/Streptomycin	Sigma Aldrich	P0781	
PBS	Sigma Aldrich	D8537	
DMEM	Sigma Aldrich	D6046	
FBS	Source Bioscience	Batch-213-101992	
L-Glutamine	Sigma Aldrich	G7513	
Lipofectamine 2000	Invitrogen	11668-019	
Optimem	Invitrogen	11058-021	
LysoTracker Red	Invitrogen	L-7528	
Draq5	Biostatus Ltd	DR50050	
Nitrogen gas	BOC		
DCM	Sigma Aldrich	320269	
TFA	Sigma Aldrich	T6508	
Confocal microscope	Leica TCS-SP		equipped with argon and krypton lasers and a 63X 0.9NA water immersion lens
UV light	UVLS28 UVP, USA		
Stirrer plate	SB161-3 Jencons-PLS		
pH meter	Jenway model 3510		
Rotary Evaporator	Buchi Rotary Evaporator R200		

Centrifuge (nanosensors)	Hermle Z300		
Centrifuge (cell culture)	Thermo Scientific Heraeus Biofuge Primo		
Vortex	Whirlimixer Fisherbrand		
Ultrasonicator	FB11021 Fisherbrand		
Aluminum sheet	Nottingham University		
35mm cell culture plate	Iwaki	3000035	
10 ml syringe	Becton Dickenson		
3T3 Fibroblast cells	European Collection of Cell Cultures		
PLGA	Lakeshore Biomaterials	7525 DLG 7E	
Pyridinium formate	Sigma Aldrich	P8535	
Trypan blue	Sigma Aldrich	T8154	
Sodium phosphate monobasic	Sigma Aldrich	S9638	
Sodium phosphate dibasic	Sigma Aldrich	S5136	
HCl	Sigma Aldrich	320331	