

Materials List for:

Fabrication of a Bioactive, PCL-based "Self-fitting" Shape Memory Polymer Scaffold

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Materials

Name	Company	Catalog Number	Comments
Polycaprolactone-diol (Mn ~ 10,000 g/mol)	Sigma-Aldrich	440752	
Dichloromethane (DCM)	Sigma-Aldrich	D65100	Dried over 4A molecular sieves
4-dimethylaminopyridine (DMAP)	Sigma-Aldrich	D5640	
Triethylamine (Et3N)	Sigma-Aldrich	T0886	
Acryloyl chloride	Sigma-Aldrich	A24109	
Ethyl acetate	Sigma-Aldrich	319902	
Potassium carbonate (K2CO3)	Sigma-Aldrich	209619	
Anhydrous magnesium sulfate (MgSO4)	Fisher	M65	
Sodium chloride (NaCl)	Sigma-Aldrich	S9888	
2,2-dimethoxy-2-phenyl acetophenone (DMP)	Sigma-Aldrich	196118	
1-vinyl-2-pyrrolidinone (NVP)	Sigma-Aldrich	V3409	
Ethanol	Sigma-Aldrich	459844	
Dopamine hydrochloride	Sigma-Aldrich	H8502	
Tris buffer (2mol/L)	Fisher	BP1759	Used at 10 mM concentration, pH = 8.5
Sieve	VWR	47729-972	
UV-Transilluminator (365 nm, 25 W)	UVP	95-0426-02	
Centrifuge	Eppendorf	5810 R	
Dynamic Mechanical Analyzer (DMA)	TA Instruments	Q800	
High Resolution Sputter Coater	Cressington	208HR	
Scanning Electron Microscope (SEM)	FEI	Quanta 600	