

Materials List for:

Melt Electrospinning Writing of Three-dimensional Poly(ϵ -caprolactone) Scaffolds with Controllable Morphologies for Tissue Engineering Applications

Felix M. Wunner¹, Onur Bas¹, Navid T. Saidy¹, Paul D. Dalton², Elena M. De-Juan Pardo¹, Dietmar W. Hutmacher^{1,3,4}

¹ARC ITTC in Additive Biomanufacturing, Institute for Health and Biomedical Innovation (IHBI), Queensland University of Technology (QUT)

²Department for Functional Materials in Medicine and Dentistry and Bavarian Polymer Institute, University of Würzburg

³Institute for Advanced Study, Technical University of Munich (TUM)

⁴George W Woodruff School of Mechanical Engineering, Georgia Institute of Technology

Correspondence to: Dietmar W. Hutmacher at dietmar.hutmacher@qut.edu.au

URL: <https://www.jove.com/video/56289>

DOI: [doi:10.3791/56289](https://doi.org/10.3791/56289)

Materials

Name	Company	Catalog Number	Comments
Plastic syringe	Nordson Australia Pty Ltd	7012072	EFD BARREL O 3mL Clear 50
Medical grade Poly (ϵ -caprolactone) (mPCL)	Corbion Purac, The Netherlands	PURASORB PC12	
23 GA needle	Nordson Australia Pty Ltd	7018302	#23GP .013 X .25 ORANGE 50 PC
Plunger	Nordson Australia Pty Ltd	7012166	PISTON O 3mL WH WIPER 50
Pressure adapter	Nordson Australia Pty Ltd	7012059	ADAPTER ASM O 3mL BL 1.8M
Aluminium collector	Action Aluminium, Australia	SHP2	Sheet 5005 H34
Acrylic glass	Mulford Plastics Pty Ltd	ACC6-13094	
Mach 3 software	Art Soft		Purchased online
Safety switch interlock	RS components Pty Ltd	12621330	
High voltage generator	EMCO High Voltage Co.	DX250R	
Temperature controller	WATLOW	PM9R1FJ	
X and Y positioning slide	VELMEX Inc.	XN-10-0020-M011	