

Materials List for:

# Synthesis of Keratin-based Nanofiber for Biomedical Engineering

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## Materials

Name	Company	Catalog Number	Comments
Human Hair			Obtained from Local Barber Shop in Greensboro
Peracetic acid	Sigma Aldrich		
PCL (ε-caprolactone polymer)	Sigma Aldrich	502-44-3	Mn 70-90 kDa
Trifluoroethanol (TFE)	Sigma Aldrich	75-89-8	
Tris Base (Trizma™ Base Powder)	Sigma Aldrich		>99.9% crystalline
Hydrochloric Acid	Fischer Scientific	A144C-212 Lot 093601	Waltham, MA
Kwik-Sil	World Precision Instruments		Sarasota, FL
Cellulose membrane	Sigma Aldrich		12 - 14 kDa molecular cut off
optical microscope	Olympus BX51M	BX51M	Japan
scanning electron microscope	Hitachi SU8000	SU8000	Japan
Table-Top Shimadzu machine	North America Analytical and Measuring Instruments AGS-X series	AGS-X Series	Columbia, MD
Fourier transform infrared spectroscopy	Bruker Tensor 2 Instrument		Billerica, MA
Microcal Origin software			Northampton, MA
X-ray diffraction (XRD)	Bruker AXS D8 Advance X-ray Diffractometer		Madison, WI
Fibroblast 3T3 cell	American Tissue Type Culture Collection		Manassas, VA
Dulbecco's modified Eagle's medium (DMEM)	Invitrogen		Grand Island, NY
Spectra max Gemini XPS microplate reader	Molecular Devices		Sunnyvale, CA
Student- Newman-Keuls post hoc test	SigmaPlot 12 software		