

Materials List for:

Three-dimensional Biomimetic Technology: Novel Biorubber Creates Defined Micro- and Macro-scale Architectures in Collagen Hydrogels

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Materials

Name	Company	Catalog Number	Comments
Collagen type I			Collagen extracted from calf hide
Hydrochloric Acid (HCl)	Sigma-Aldrich	7647-01-0	
Phosphate Buffer Solution (PBS Tablets)	MP Biomedical	U5378	1 tablet per 100 ml makes 1x PBS
Albumin from bovine serum (BSA)	Sigma-Aldrich	A9647	
Glutaraldehyde	Sigma -Aldrich	G5882	Toxic
Lard	Fields	3090	
Stainless Steel Molds			Milled using Microlution Machine
Air Brush Kit	Central Pneumatic	47791	
Mixing Tip for double syringe	Medmix	ML2.5-16-LLM	Mixer, DN2,5X16, 4:1 brown, med
Small O ring for double syringe	Medmix	PPB-X05-04-02SM	Piston B, 5 ml, 4:1, PE natural
Double Syringe cap	Medmix	VLX002-SM	Cap, 4:1/10:1, PE brown, med
Big O ring for double syringe	Medmix	PPA-X05-04-02SM	Piston A, 5 ml, 4:1
Double Syringe	Medmix	SDL X05-04-50M	Double syringe, 5 ml, 4:1
Double Syringe Dispenser	Medmix	DL05-0400M	Dispenser, 5 ml, 4:1, med , plain
Laminin			3.6 mg/ml - extracted USC lab
20 ml Syringe Luer Lock Tip	BD	302830	
Luer Lock Caps	Fisher	JGTCBLLX	
HEPES	Sigma -Aldrich	H4034	
Gibco Minimum Essential Media 10x (MEM)	Life Technologies	1143-030	
Trypsin	Life Technologies	27250-018	
UV Crosslinker	Spectroline UV	XLE1000	
Sodium Chloride (NaCl)	Fisher	S271-10	To prepare Mosconas
Potassium chloride (KCl)	Sigma -Aldrich	P5405-250	To prepare Mosconas
Sodium Bicarbonate (NaHCO ₃)	Fisher	BP328-500	To prepare Mosconas
Glucose	Sigma -Aldrich	G-8270	To prepare Mosconas
Sodium Phosphate didasic (NaH ₂ PO ₄)	Sigma-Aldrich	S-7907	To prepare Mosconas
Sterile Filter for syringes	Corning	431224	