

Materials List for:

Tunable Hydrogels from Pulmonary Extracellular Matrix for 3D Cell Culture

Patrick A. Link¹, Robert A. Pouliot¹, Nabil S. Mikhael¹, Bethany M. Young¹, Rebecca L. Heise^{1,2}

¹Department of Biomedical Engineering, Virginia Commonwealth University

²Department of Physiology and Biophysics, Virginia Commonwealth University

Correspondence to: Rebecca L. Heise at rlheise@vcu.edu

URL: <https://www.jove.com/video/55094>

DOI: [doi:10.3791/55094](https://doi.org/10.3791/55094)

Materials

Name	Company	Catalog Number	Comments
Triton X-100	Fisher Scientific	BP151-100	Use in fume hood with eye protection and gloves.
Sodium Deoxycholate	Sigma-Aldrich	D6750-100g	Use in hood with eye protection and gloves.
Magnesium Sulfate	Sigma-Aldrich	M7506-500g	None
Calcium Chloride	Sigma-Aldrich	C1016-500g	None
DNase	Sigma-Aldrich	D5025-150KU	None
HCl	Sigma-Aldrich	258148-500ML	Use with eye protection and gloves.
Pepsin	Sigma-Aldrich	P6887-5G	Use in fume hood with eye protection and gloves.
Sodium Hydroxide	Fisher Scientific	BP359-500	Use with eye protection and gloves.
Genipin	Wako Chemicals	078-03021	Use in fume hood with eye protection and gloves.
PBS 10x	Quality Biological	119-069-151	None
PBS	VWR	45000-448	None
Filter Paper	Whatman	8519	N/A
Hand pump	Fisher Scientific	10-239-1	N/A
Graduate Beaker	VitLab	445941	N/A
Cryomill	SPEX	6700	Use cryogloves and eye protection.
Lyophilizer	FTS FlexiDry		Use gloves.
Rheometer	Discovery	HR-2	Use gloves and eye protection.