

Materials List for:

Longitudinal Measurement of Extracellular Matrix Rigidity in 3D Tumor Models Using Particle-tracking Microrheology

Dustin P. Jones^{*1}, William Hanna^{*1}, Hamid El-Hamidi¹, Jonathan P. Celli¹

¹Department of Physics, University of Massachusetts Boston

*These authors contributed equally

Correspondence to: Jonathan P. Celli at Jonathan.Celli@umb.edu

URL: <https://www.jove.com/video/51302>

DOI: [doi:10.3791/51302](https://doi.org/10.3791/51302)

Materials

Name	Company	Catalog Number	Comments
Bovine type 1 collagen	BD Biosciences, San Jose, CA	354231	
PANC-1	American Type Cell Culture, Manassas, VA	CRL1469	or other appropriate cell type
Fluorescent Microspheres	Life Technologies, Carlsbad, CA	906906	
Matrigel	BD Biosciences, Bedford, MA	354230	
Agarose	Fisher Bioreagents, Waltham, MA	C12H18O9	
NaOH	Fisher Bioreagents, Waltham, MA	NC0480985	
96-well Imaging plates	Corning Inc., Corning, NY	3904	
DMEM	Hyclone, Waltham, MA	SH30243.01	or appropriate cell culture media
Zeiss AxioObserver Microscope	Zeiss, Oberkochen, Germany		includes high-speed camera and imaging software
MATLAB software	The Mathworks, Natick, MA		