

Materials List for:

In Situ Mapping of the Mechanical Properties of Biofilms by Particle-tracking Microrheology

Su C. Chew^{1,2}, Scott A. Rice^{2,3,4,5}, Staffan Kjelleberg^{2,3,4,6}, Liang Yang^{2,3}

¹Interdisciplinary Graduate School, Nanyang Technological University

²Singapore Centre on Environmental Life Sciences Engineering, Nanyang Technological University

³School of Biological Sciences, Nanyang Technological University

⁴Centre for Marine Bio-Innovation, University of New South Wales

⁵School of Biological, Earth and Environmental Sciences, University of New South Wales

⁶School of Biotechnology and Biomolecular Sciences Sciences, University of New South Wales

Correspondence to: Liang Yang at yangliang@ntu.edu.sg

URL: <https://www.jove.com/video/53093>

DOI: [doi:10.3791/53093](https://doi.org/10.3791/53093)

Materials

Name	Company	Catalog Number	Comments
Fluorspheres	Invitrogen	F-8821	1.0 µm red fluorescent (580/605) microspheres with carboxylate modification
Zeiss Axio Imager M1	Carl Zeiss		Epifluorescent Microscope
Masterflex L/S Digital Drive 07523-80	Cole-Parmer	EW-07523-80	Peristaltic pump
Flow Cell Chambers	Technical University of Denmark		
Bubble Trap	Technical University of Denmark		
Silicone Tubing	Dow Corning		3 mm outer diameter, 1 mm inner diameter
Clear polypropylene plastic connectors	Cole Parmer	06365-83	1/16 in. (1.588 mm)
Binder Clips			To clamp tubing
Coverslips	Thermo Scientific™ Nunc™	50 x 24 mm	
Syringe 3 ml	Terumo		
27 G Needle	Terumo		
2 L Storage/Media Bottles	VWR®		
Trolley			To hold biofilm setup