

Amplitude-Modulated Electrodeformation to Evaluate Mechanical Fatigue of Biological Cells

Darryl Dieujuste¹, Adeleh Kazemi Alamouti¹, Hongyuan Xu¹, E Du^{1,2}

¹Department of Ocean and Mechanical Engineering, Florida Atlantic University ²Center for SMART Health, Florida Atlantic University

Corresponding Author

E Du
edu@fau.edu

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jove.com/video/65897

Materials

Name	Company	Catalog Number	Comments
Balance Scale	VIBRA	HT-224R	
Bandpass filter	BRIGHTLINE	414/46 BrightLine HC	
BD Disposable Syringes with Luer-Lok™ Tips, 1 mL	Fisher Scientific	14-823-30	
Biopsy Punches with Plunger System, 1.5 mm	Fisher Scientific	12-460-403	
Biopsy Punches with Plunger System, 3 mm	Fisher Scientific	12-460-407	1.5 mm and 3 mm diameter
Blunt needle, 23-gauge	BSTEAN	X001308N97	
Bovin Serum Albumin	RMBIO	BSA-BSH	
Centrifuge	SCIOLOGEX	911015119999	
Conical Tube, 50 mL	Fisher Scientific	05-539-13	
Dextrose	Fisher Scientific	MDX01455	MilliporeSigma™
EC Low Conductivity meter	ecoTestr	358/03	
Eppendorf Snap-Cap Microcentrifuge Tubes	www.eppendorf.com	05-402-25	
Excel	Microsoft		Graph plotting
Function Generator	SIGLENT	SDG830	
Glass/ITO Electrode Substrate	OSSILA	S161	
ImageJ	NIH		https://imagej.nih.gov/ij/
Inverted Microscope	OLYMPUS	IX81 - SN9E07015	
Lab Oven	QUINCY LAB (QL)	MODEL 30GCE	Digital Model
Matlab	MathWorks		Graph plotting
Micro Osmometer - Model 3300	Advanced Instruments Inc.	S/N: 03050397P	
Parafilm Laboratory Wrapping Film	Fisher Scientific	13-374-12	
Petri dish	FALCON	SKU=351006	ICSI/Biopsydish 50*9 mm
Phosphate Buffered Saline (PBS)	LONZA	04-479Q	
Plasma Cleaner	Harrick plasma PDCOOL	NC0301989	
Solidworks	Dassault Systemes		CAD software

Sucrose	Fisher Scientific	50-188-2419	
Vacuum Desiccator	SPBEL-ART	F42400-2121	
Wooden spatula	Fisher Scientific	NC0304136	Tongue Depressors Wood NS 6"