

Materials List for:

# A Multi-well Format Polyacrylamide-based Assay for Studying the Effect of Extracellular Matrix Stiffness on the Bacterial Infection of Adherent Cells

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URL: <https://www.jove.com/video/57361>

DOI: [doi:10.3791/57361](https://doi.org/10.3791/57361)

## Materials

Name	Company	Catalog Number	Comments
<b>Reagents</b>			
Sodium hydroxide pellets	Fisher	S318-500	
(3-Aminopropyl)triethoxysilane	Sigma	A3648	
25% gluteraldehyde	Sigma	G6257-100ML	
40% Acrylamide	Sigma	A4058-100ML	
Bis-acrylamide solution (2%w/v)	Fisher Scientific	BP1404-250	
Fluorospheres carboxylate-modified microspheres, 0.1 µm, yellow-green fluorescent (505/515)	Invitrogen	F8803	
Ammonium Persulfate	Fisher	BP17925	
TEMED	Sigma	T9281-25ML	
Sulfo-SANPAH	Proteochem	c1111-100mg	
Collagen, Type I Solution from rat	Sigma	C3867-1VL	
Dimethyl sulfoxide (DMSO)	J.T. Baker	9224-01	
HEPES, Free acid	J.T. Baker	4018-04	
Leibovitz's L-15 medium, no phenol red	Thermofischer	21083027	
MCDB 131 Medium, no glutamine	Life technologies	10372019	
Foundation Fetal Bovine Serum, Lot: A37C48A	Gemini Bio-Prod	900108 500ml	
Epidermal Growth Factor, EGF	Sigma	E9644	
Hydrocortisone	Sigma	H0888	
L-Glutamine 200mM	Fisher	SH3003401	
DPBS 1X	Fisher	SH30028FS	
Gentamicin sulfate	MP biomedicals	194530	
Cloramphenicol	Sigma	C0378-5G	
Difco™ Agar, Granulated	BD	214530	
BBL™ TM Brain-heart infusion	BD	211059	
Hoechst 33342, trihydrochloride, trihydrate - 10 mg/ul solution in water	Invitrogen	H3570	
Formaldehyde 16% EM grade	Electron microscopy	15710-S	
Anti-Listeria monocytogenes antibody	Abcam	ab35132	

Goat anti-Rabbit IgG (H+L) Secondary Antibody, Alexa Fluor® 546 conjugate	Thermofischer	A-11035	
0.25% trypsin-EDTA , phenol red	Thermofischer	25200056	
COLLAGENASE FROM CLOSTRIDIUM HISTOLYTIC	Sigma	C8051	
Streptomycin sulfate	Fisher Scientific	3810-74-0	
Sucrose	Calbiochem	8510	
Sodium dodecyl sulfate	Thermofischer	28364	
MES powder	Sigma	M3885	
KCl	J.T. Baker	3040-05	
MgCl <sub>2</sub>	J.T. Baker	2444-1	
EGTA	Acros	40991	
<b>Disposable lab equipment</b>			
12 mm circular glass coverslips	Fisherbrand	12-545-81	No. 1.5 Coverslip   10 mm Glass Diameter   Uncoated
Glass bottom 24 well plates	Mattek	P24G-1.5-13-F	
5 ml polystyrene tubes with a 35 µm cell strainer cap	Falcon	352235	
T-25 flasks	Falcon	353118	
50 ml conical tubes	Falcon	352070	
15 ml conicals tubes	Falcon	352196	
Disposable Serological Pipettes (1 ml, 2 ml, 5 ml, 10 ml, 25 ml)	Falcon	357551	
Pasteur Glass Pipettes	VWR	14672-380	
Pipette Tips (1-200 µl, 101-1000 µl)	Denville	P1122, P1126	
Powder Free Examination Gloves	Microflex	XC-310	
Cuvettes bacteria	Sarstedt	67.746	
Razors	VWR	55411-050	
Syringe needle	BD	305167	
0.2µm sterilizng bottles	Thermo Scientific	566-0020	
20 ml syringes	BD	302830	
0.2µm filters	Thermo Scientific	723-2520	
wooden sticks	Grainger	42181501	
Saran wrap	Santa Cruz Biotechnologies	sc-3687	
Plates bacteria	Falcon	351029	
<b>Large/non-disposable lab equipment</b>			
Tissue Culture Hood	Baker	SG504	
Hemacytometer	Sigma	Z359629	
Bacteria incubator	Thermo Scientific	IGS180	
Tissue culture Incubator	NuAire	NU-8700	
Inverted Nikon Diaphot 200 epifluorescence microscope	Nikon	NIKON-DIAPHOT-200	
Cage Incubator	Haison	Custom	
Scanford FACScan analyzer	Stanford and Cytek upgraded FACScan	Custom	
Pipette Aid	Drummond	4-000-110	
Pipettors (10 µl, 200 µl, 1000ul)	Gilson	F144802, F123601, F123602	

pH meter	Mettler Toledo	30019028	
forceps	FST	11000-12	
1 L flask	Fisherbrand	FB5011000	
Autoclave machine	Amsco	3021	
Stir magnet plate	Bellco	7760-06000	
Magnet stirring bars	Bellco	1975-00100	
Spectrophotometer	Beckman	DU 640	
Scanford FACScan analyzer	Cytek Biosciences	Custom Stanford and Cytek upgraded FACScan	
<b>Software</b>			
Microscope Software ( $\mu$ Manager)	Open Imaging		
Matlab	Matlab Inc		
Flowjo	FlowJo, LLC		
Automated image analysis software, CellC	<a href="https://sites.google.com/site/cellcsoftware/">https://sites.google.com/site/cellcsoftware/</a>		The software is freely available. Executable files and MATLAB source codes can be obtained at <a href="https://sites.google.com/site/cellcsoftware/">https://sites.google.com/site/cellcsoftware/</a>