

Materials List for:

Methodologies for Studying *B. subtilis* Biofilms as a Model for Characterizing Small Molecule Biofilm Inhibitors

Tabitha Bucher¹, Elena Kartvelishvily², Ilana Kolodkin-Gal¹

¹Department of Molecular Genetics, Weizmann Institute of Science

²Electron Microscopy Unit, Weizmann Institute of Science

Correspondence to: Ilana Kolodkin-Gal at Ilana.Kolodkin-Gal@weizmann.ac.il

URL: <https://www.jove.com/video/54612>

DOI: [doi:10.3791/54612](https://doi.org/10.3791/54612)

Materials

Name	Company	Catalog Number	Comments
Luria Broth, Lennox	Difco	240230	
Bacto Agar	Difco	214010	
potassium phosphate monobasic	Sigma, 136.09 g/mol	P0662-500G	
potassium phosphate dibasic	Fisher Scientific, 174.18 g/mol	BP363-1	
3-(<i>N</i> -morpholino)propanesulfonic acid	Fisher Scientific, 209.27 g/mol	BP308-500	
magnesium chloride hexahydrate	Merck, 203.30 g/mol	1.05833.0250	
calcium chloride anhydrous	J.T. Baker, 110.98 g/mol	1311-01	
manganese(II) chloride tetrahydrate	Sigma, 197.91 g/mol	31422-250G-R	
iron(III) chloride hexahydrate	Sigma, 270.30 g/mol	F2877-500G	
zinc chloride anhydrous	Acros Organics, 136.29 g/mol	424592500	
thiamine hydrochloride	Sigma, 337.27 g/mol	T1270-100G	
L-tryptophan	Fisher Scientific, 204.1 g/mol	BP395-100	
L-phenylalanine	Sigma, 165.19 g/mol	P5482-100G	
L-threonine	Sigma, 119.12 g/mol	T8625-100G	
glycerol anhydrous	Bio-Lab Ltd	712022300	
L-glutamic acid monosodium salts hydrate	Sigma, 169.11 g/mol	G1626-1KG	
D-leucine	Sigma, 169.11 g/mol	855448-10G	
ethanol anhydrous	Gadot	830000054	
razor blade	Eddison	NA	
circular cellulose filter papers	Whatman, 90 mm	1001-090	
glutaraldehyde	EMS (Electron Microscopy Science), 25% in water	16220	
paraformaldehyde	EMS, 16% in water	15710	
sodium cacodylate	Merck, 214.05 g/mol	8.2067	
calcium chloride 2-hydrate	Merck, 147.02 g/mol	1172113	
stub-aluminium mount	EMS, sloted head	75230	
carbon adhesive tape	EMS	77825-12	
Shaker 37 °C	New Brunswick Scientific Innova42	NA	
Centrifuge	Eppendorf table top centrifuge 5424	NA	

Digital Sonifier, Model 250, used with Double Step Microtip	Branson	NA	
Incubator 30 °C	Binder	NA	
Incubator 23 °C	Binder	NA	
Filter System, 500 ml, polystyrene	Cornig Incorporated	NA	
Rotary Shaker - Orbitron Rotatory II	Boekel	NA	
S150 Sputter Coater	Edwards	NA	
CPD 030 Critical Point Dryer	BAL-TEC	NA	
Environmental Scanning Electron Microscope	XL30 ESEM FEG Philips (FEI)	NA	