

Materials List for:

Investigating Flagella-Driven Motility in *Escherichia coli* by Applying Three Established Techniques in a Series

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Materials

Name	Company	Catalog Number	Comments
Reagents			
Bacto Dehydrated Agar	Fisher Scientific	DF0140-15-4	
EDTA Disodium Salt, Dihydrate	Fisher Scientific	02-002-786	
Eiken agar	Eiken Chemical Co. Japan	E-MJ00	Essential for <i>E. coli</i> swarming
Glucose D (+)	Fisher Scientific	410955000	
LB (Lennox) Broth	Fisher Scientific	BP1427-500	
Poly-L-lysine Solution (0.1%)	Sigma-Aldrich	P8920	
Potassium chloride (KCl)	Fisher Scientific	18-605-496	
Potassium Phosphate monobasic (KH ₂ PO ₄)	Fisher Scientific	BP362-500	
Potassium Phosphate dibasic (K ₂ HPO ₄)	Fisher Scientific	BP363-500	
Sodium chloride (NaCl)	Fisher Scientific	S271-500	
Materials and Equipment			
CellSense microscope imaging software (V. 1.6)	Olympus		Or equivalent software for microscope used
Electron Microscopy Sciences Scotch 666 Double Sided Tape	Fisher	50-285-28	
Frosted microscope slides 3x1x1mm	Fisher	12-550-343	
Olympus BX53 microscope	Olympus	BX53	Any upright or inverted phase microscope can be used
Petri dishes (100 mm diameter)	Fisher Scientific	FB0875712	For soft-agar assays
Polyethylene Nebulizer Capillary Tubing (0.58mm x 99mm 3.0m)	Perkin Elmer	9908265	
Round Petri Dish with 2 Compartments	VWR	89200-944	For border-crossing assays
Safety Hypodermic Needles (23G)	Fisher Scientific	14-826A	
Sterile Syringe - 1 mL	Fisher scientific	14-955-450	
Task/Tissue wipes	Fisher scientific	06-666	Or equivalent single use tissue wipes
VWR micro cover-glass 18x18mm	VWR	48366205	
XM10 camera	Olympus	XM10	Or equivalent microscope camera