

Materials List for:

Monitoring Spatial Segregation in Surface Colonizing Microbial Populations

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Materials

Name	Company	Catalog Number	Comments
Lennox Broth (LB)	Carl Roth GmbH	X964	
Agar-agar, Kobe I	Carl Roth GmbH	5210	
Petri dish (90 mm diameter)	any	NA	Use Petri dishes without ventilation cams
Petri dish (35 mm diameter)	any	NA	Use Petri dishes without ventilation cams
Difco Nutrient Broth	BD Europe	234000	
KCl	any	NA	
MgSO ₄ 7H ₂ O	any	NA	
Ca(NO ₃) ₂ 4H ₂ O	any	NA	
MnCl ₂ 4H ₂ O	any	NA	
FeSO ₄	any	NA	
D-Glucose	any	NA	
Fluorescence AxioZoom V16 time-lapse microscope	Carl Zeiss Microscopy GmbH		see below detailed description
AxioZoom V16 Microscope body	Carl Zeiss Microscopy GmbH	435080 9030 000	
Phototube Z 100:0 for Axio Zoom V16	Carl Zeiss Microscopy GmbH	435180 9020 000	without eyepieces
Fluar Illuminator Z mot Fluorescence intermediate tube for Axio Zoom.V16	Carl Zeiss Microscopy GmbH	435180 9060 000	
Controller EMS 3	Carl Zeiss Microscopy GmbH	435610 9010 000	
System Control Panel SYCOP 3	Carl Zeiss Microscopy GmbH	435611 9010 000	
Reflector module Z	Carl Zeiss Microscopy GmbH	435180 9160 000	For Fluar Illuminator Z mot on Axio Zoom.V16 and SYCOP 3
Filter set 38 HE eGFP shift free (E)	Carl Zeiss Microscopy GmbH	489038 9901 000	EX BP 470/40, BS FT 495, EM BP 525/50
Filter set 63 HE mRFP shift free (E)	Carl Zeiss Microscopy GmbH	489063 0000 000	EX BP 572/25, BS FT 590, EM BP 629/62
Mount S	Carl Zeiss Microscopy GmbH	435402 0000 000	
Objektive PlanApo Z 0,5x/0,125 FWD 114 mm	Carl Zeiss Microscopy GmbH	435280 9050 000	164 mm parfocal length; M62x0.75 thread at front
Coarse/fine drive with profile column	Carl Zeiss Microscopy GmbH	435400 0000 000	490 mm, 10 kg load capacity, compatible with stand bases 300/450
Stand base 450	Carl Zeiss Microscopy GmbH	435430 9902 000	
Cold-light source Zeiss CL 9000 LED CAN	Carl Zeiss Microscopy GmbH	435700 9000 000	
CAN-bus cable	Carl Zeiss Microscopy GmbH	457411 9011 000	2.5 m length

Slit-ring illuminator	Carl Zeiss Microscopy GmbH	417075 9010 000	d = 66 mm
Flexible light guide 1500	Carl Zeiss Microscopy GmbH	417063 9901 000	8/1,000 mm
Illumination Adapter for light guide	Carl Zeiss Microscopy GmbH	000000 1370 927	
Lightguide HXP with liquid fill	Carl Zeiss Microscopy GmbH	000000 0482 760	ø3 mm x 2,000 mm
Camera Adapter 60N-C	Carl Zeiss Microscopy GmbH	426113 0000 000	2/3" 0.63X
High Resolution Microscopy Camera AxioCam MRm Rev. 3 FireWire	Carl Zeiss Microscopy GmbH	426509 9901 000	
AxioCam FireWire Trigger Cable Set	Carl Zeiss Microscopy GmbH	426506 0002 000	for direct shutter synchronization
ZEN pro 2012	Carl Zeiss Microscopy GmbH	410135 1002 120	Blue edition, requires min. Windows 7 64-bit
ZEN Module Time Lapse	Carl Zeiss Microscopy GmbH	410136 1031 110	
Standard Heating Stage Top Incubator	Tokai Hit	INUL-MS1-F1	
Zeiss Stereo Microscope Base Adapter	Tokai Hit	MS-V12	
Softwares			
ImageJ	National Institute of Health, Bethesda, MD, USA	v 1.49m	
BioVoxxel plugin	BioVoxxel		http://www.biovoxxel.de/development/