

Materials List for:

Monitoring Spatial Segregation in Surface Colonizing Microbial Populations

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URL: <http://www.jove.com/video/54752>

DOI: [doi:10.3791/54752](https://doi.org/10.3791/54752)

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 | |
| BioVoxel plugin | BioVoxel | | http://www.biovoxxel.de/development/ |