

Materials List for:

***Pseudomonas aeruginosa* and *Saccharomyces cerevisiae* Biofilm in Flow Cells**

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Materials

- Bubble traps, polyethylene (DTU Systems Biology, Technical University of Denmark, <http://www.csm.bio.dtu.dk/Instrument%20Center/Resources/Biofilm%20Setup.aspx>)
- Clear polypropylene plastic connectors and T-connectors (Cole Parmer, 1/8 in. (3.175 mm) and 1/16 in. (1.588 mm))
- Clamps
- Confocal microscope (Zeiss, Meta LSM510)
- Coverslips, glass (Knittel Gläser) 50 x 24 mm
- Coverslips, PVC coverslips (Rinzl) 50 x 24 mm
- Flow cells, polyethylene (DTU Systems Biology, Technical University of Denmark, <http://www.csm.bio.dtu.dk/Instrument%20Center/Resources/Biofilm%20Setup.aspx>)
- Medium bottles (Schott)
- Peristaltic Pump (Watson-Marlow, 205S)
- Rolling cart for flow systems and pumps
- Silicone glue (3M Super Silicone Sealant Clear)
- Syringe 5 mL (Terumo)
- Syto 9 (Molecular Probes)
- 0.5 mL Syringes with needles (27G, Terumo LU-100)
- Waste container

Tubing:

- Silicone, 3 mm outer diameter, 1 mm inner diameter (Ole Dich)
- Silicone, 4 mm outer diameter, 2 mm inner diameter (Ole Dich)
- Marprene, 3 mm outer diameter, 1 mm inner diameter (Watson-Marlow)

Media

<i>P. aeruginosa</i> medium	
A10	g/L
(NH ₄) ₂ SO ₄	2.0
Na ₂ HPO ₄ X 2H ₂ O	6.0
KH ₂ PO ₄	3.0
NaCl	3.0
Autoclave	
FB	
MgCl ₂ 6H ₂ O	0.20
1 mL 1 M CaCl ₂	0.01
100 µL/L Trace metals (for <i>P. aeruginosa</i> -biofilms) ⁴	
Autoclave	
Mix A10 and FB in a ratio of 1:10.	
Add carbon source to a desired concentration.	
<i>S. cerevisiae</i> synthetic complete (SC) medium	

	g/L
Adenine sulfate	0.02
L-tryptophan	0.02
L-histidine-HCL	0.02
L-arginine-HCL	0.04
L-methionine	0.02
L-tyrosine	0.05
L-leucine	0.06
L-isoleucine	0.06
L-lysine-HCL	0.05
L-phenylalanine	0.05
L-aspartic acid	0.10
L-glutamic acid	0.10
L-valine	0.15
L-threonine	0.20
L-serine	0.40
Yeast Nitrogen base w/o amino acids and ammonium (Bacto)	1.6
Ammonium sulphate	5.0
NaOH	6.0
Succinic acid	10.0
Autoclave	
Glucose (autoclaved separately)	0.20