

Materials List for:

Sealable Femtoliter Chamber Arrays for Cell-free Biology

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Materials

Name	Company	Catalog Number	Comments
SU-8 2015	Microchem	SU-8 2000 series	Toxic. Handle with care. Wear chemical goggles, chemical gloves and suitable protective clothing when handling SU-8 2000 resists. Do not get into eyes, or onto skin or clothing.
SU-8 Thinner	Microchem	SU-8 2000 series	Handle with care. Wear chemical goggles, chemical gloves and suitable protective clothing when handling SU-8 2000 resists. Do not get into eyes, or onto skin or clothing.
SU-8 Developer	Microchem	SU-8 2000 series	Handle with care. Wear chemical goggles, chemical gloves and suitable protective clothing when handling SU-8 2000 resists. Do not get into eyes, or onto skin or clothing.
Chlorotrimethylsilane	Sigma Aldrich	92360 FLUKA	Hazardous. Corrosive to the respiratory tract., Reacts violently with water.
Sylgard 184 PDMS	Dow Corning	SYLGARD 184	
0.75 mm hole-puncher	Ted Pella Inc.	15072	Harris Uni-Core
23 gauge needles blunt tip	Component Supply Co.	/NE-231PL-25	
#0 glass coverslip	Ted Pella Inc.	260366	Gold Seal
Plasma Cleaner	Harrick Plasma	PDC-001	
Microscope	Nikon Instruments	Eclipse TE 300	
CCD camera	Roper Scientific	CoolSNAP-HQ	
Shutter	Shutter Instrument	Lambda SC	
Light Source	Nikon	Intensilight C-HGFI	
Color Filters	Chroma Technology Corp.	ZET 532/106 excitation, ZT 532rdc dichroic, ET 595/50m emission	
100X oil-immersion objective	Nikon	N.A. 1.4	
Temperature Regulator	Okolab	H201-T	
Metamorph	Universal Imaging Corp.	Version 7.8.3.0	
Marsh Bellofram transducers	Marsh Bellofram	T2000	
24 gauge PTFE tubing	Component Supply Co.	/SWTT-24-C	
Septum vials	National Scientific	C4015- 17W	
Power Supply	Hewlett Packard	6205B Dual DC Power Supply	

Sharp 23 gauge needles	Precision Glide	305129	
Male-to-male luer lock adapters	Qosina	20024	Polycarbonate
Stainless Steel Blunt Needle 23 gauge	Component Supply Co.	/NE-232PL-5C	Polypropylene
S30 <i>E. coli</i> protein expression system	Promega	L1110	
Pet3a-GFP vector/protein	Novagen	69418-3	Assembled in-house. Inserted EGFP gene in Pet3a.
Quantum Prep Plasmid Midiprep Kit	Biorad	#732-6120	
QIAquick PCR Purification Kit	Qiagen	28106	
Kimwipes	Kimberly-Clark	34155	
Alexa Fluor 555	Molecular Probes	AF555	http://www.lifetechnologies.com
ImageJ	National Institutes of Health	Version 1.46r	
Plugin: Time Series Analyzer	Balaji J Dept. of Neurobiology, UCLA	Version 3.0	
Plugin: StackReg/TurboReg	Ecole Polytechnique Fédérale de Lausanne Biomedical Imaging Group	Distribution is dated July 7, 2011	
Plugin: ROI Manager Tools	Tiago Ferreira	12/15/2013 Version	