

Materials List for:

## Fabrication and Use of MicroEnvironment microArrays (MEArrays)

Chun-Han Lin<sup>1,2</sup>, Jonathan K. Lee<sup>1</sup>, Mark A. LaBarge<sup>1</sup>

<sup>1</sup>Life Science Division, Lawrence Berkeley National Laboratory

<sup>2</sup>Department of Comparative Biochemistry, University of California, Berkeley

Correspondence to: Mark A. LaBarge at [malabarge@lbl.gov](mailto:malabarge@lbl.gov)

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### Materials

Name	Company	Catalog Number	Comments
Glass slides 25 mm x 75 mm	VWR	48311-600	
Glass coverslips (no.1) 24 mm x 50 mm	VWR	48393-241	
Staining dish (or Coplan jar)	VWR	25461-003	
Petri dishes (15 cm)	BD Falcon	351058	
NaOH (1.0N)	Sigma-Aldrich	S2567	
APES (>98% (3-Aminopropyl)triethoxysilane)	Sigma-Aldrich	A3648	
Glutaraldehyde	Sigma-Aldrich	G7651	50% in water
APS (>98% Ammonium Persulfate)	Sigma-Aldrich	A3678	Prepare 10% working solution with ddH <sub>2</sub> O
TEMED (N,N,N',N'-Tetramethylethylenediamine)	Sigma-Aldrich	T9281	
Acrylamide (40%)	Sigma-Aldrich	A4058	
Bis-Acrylamide (2% w/v)	Fisher BioReagents	BP1404-250	
0.45 µm Syringe filter 4-mm nylon	Nalgene	176-0045	
FITC	Sigma-Aldrich	F4274	
PDMS (polydimethylsiloxane)	Dow Corning	3097358-1004	Sylgard 184 Elastomer kit via Ellsworth Adhesives
2-chamber slides	NUNC	177380	
Pluronic F108	BASF	30089186	
Aquarium sealant	Dow Corning	DAP 00688	
Fluormount-G	Southern Biotech	0100-01	
Disposable plastic cups			
Tongue depressors			
Nitrile gloves			
Plastic microscope slide boxes			
Spin coater	WS-400B-6NPP/LITE	Laurell Technologies Corporation	
Oven			
Digital hotplate			
384-well plates			A brand appropriate for the microarray robot
Microarray printing robot			
Inverted phase and fluorescence microscope			
Axon microarray scanners	Molecular Devices		Multiple configurations exist