

Materials List for

Particle Templated Emulsification enables Microfluidic-Free Droplet Assays

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Materials

Name	Company	Catalog Number	Comments
0.22 um syringe filter	Milipore Sigma	SLGP033RS	
0.5M EDTA, pH 8.0	Thermo-Fisher	15575020	
0.75 mm biopsy punch	World Precision Instruments	504529	
1 mL syringes	BD	309628	
1H,1H,2H-Perfluoro-1-Octanol (PFO)	Sigma-Aldrich	370533	
1M Tris-HCl, pH 8.0	Thermo-Fisher	15568025	
27 gauge needles	BD	305109	
3" silicon wafers, P type, virgin test grade	University Wafers	447	
3D-printed centrifuge syringe holder	(custom)	(custom)	
Acrylamide solution,40%, for electrophoresis, sterile-filtered	Sigma-Aldrich	A4058-100ML	
Ammonium persulfate	Sigma-Aldrich	A3678-25G	
Aquapel (fluorinated surface treatment)	Pittsburgh Glass Works	47100	
Hexane	Sigma-Aldrich	139386	
FC-40 fluorinated oil	Sigma-Aldrich	F9755	
Isopropanol	Sigma-Aldrich	109827	
N,N'-Methylenebis(acrylamide)	Sigma-Aldrich	146072-100G	
NaCl	Sigma-Aldrich	S9888	
Novec-7500 Engineering Fluid (HFE oil)	3M	98-0212-2928-5	
polyethylene tubing	Scientific Commodities	B31695-PE/2	
fluorosurfactant	Ran Biotechnologies	008-FluoroSurfactant	
PGMEA developer	Sigma-Aldrich	484431	
Photomasks	CadArt Servcies	(custom)	
Platinum Multiplex PCR Master Mix (Taq Master Mix)	Applied Biosystems	4464263	
Spin coater	Specialty Coating Systems	G3P-8	

Span 80 (sorbitane monooleate)	Sigma-Aldrich	s6760	
SU-8 3025 photoresist	Kayaku	17030192	
Triton X-100 (octylphenol ethoxylate)	Sigma-Aldrich	t8787	
Tween 20 (polysorbate 20)	Sigma-Aldrich	p2287	
Platinum Multiplex PCR Master Mix (Taq Master Mix)	Applied Biosystems	4464263	
Yeast FWD	IDT	5'-GCAGACCAGACCAGAACAAA-3'	
Yeast REV	IDT	5'-ACACGTATGTATCTAGCCGAATA AC-3	
Yeast Probe	IDT	5'-/56-FAM/ATATGTTGT/ZEN/ TCACTCGCGCCTGGG/3IABk FQ/-3'	
EVOS FL AUTO	Life Technologies		
EVOS LED Cube, GFP	Life Technologies	AMEP4651	
SYLGARD 184 KIT 1.1 LB (PDMS base and curing reagents)	Dow Corning	DC4019862	
TEMED	Thermo Fisher	17919	
Saccharomyces cerevisiae genomic DNA	Milipore	69240-3	
Expanded plasma cleaner (plasma bonder)	Harrick Plasma	PDC-002 (230V)	