

Materials List for:

High Throughput Single-cell and Multiple-cell Micro-encapsulation

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Materials

Name	Company	Catalog Number	Comments
AutoCAD	AutoDesk		
Transparency Mask	Fineline Imaging Inc.		
SU-8 Photoresist	MicroChem Corp.	2050	
Dektak Profilometer	Veeco Instruments, Inc.		
Petri Dish	BD Biosciences	351058	
PDMS Silicone Elastomer Kit	Dow Corning	Sylgard 184, Material Number (240)4019862	
Vacuum Desiccator	Jencons	250-030	
Vacuum Pump	Alcatel Vacuum Technology	2010 C2	
Vacuum Regulator	Cole-Parmer	EW-00910-10	
Oven	Thermo Fisher Scientific, Inc.	Lindberg Blue M, OV800F	
Biopsy Punch, 0.75 mm	Harris	Uni-Core 15072	
Laboratory Corona Treater	Electro-Technic Products Inc.	BD-20AC, SKU 12051A	
Glass Slides	Gold Seal	3010	
Aquapel	PPG Industries		Alternative Strategy
Polystyrene Microspheres, 9.9 µm	Thermo Fisher Scientific, Inc.	G1000	
OptiPrep	Sigma-Aldrich	D1556	Not Demonstrated
Luer-Lok Syringes	BD Biosciences	1 mL: 309628 3 mL: 309585	
FC-40 Fluorocarbon Oil	3M Inc.	Sigma Aldrich, F9755	
PFPE-PEG Fluorosurfactant	RainDance Technologies		
Light Mineral Oil	PTI Process Chemicals	08042-47-5	Alternative Strategy
Mineral Oil Surfactant	Evonik Goldschmidt Corporation	ABIL EM 90	Alternative Strategy
Tygon PVC Tubing	Small Parts, Inc.	TGY-010	
30 Gauge Luer-Lok Syringe Needle, 1/2"	Small Parts, Inc.	NE-301PL-C	
Inverted Microscope	Carl Zeiss Imaging	Axio Observer.Z1	
High Speed Camera	Vision Research	Phantom V310	
Syringe Pumps (2)	Chemyx Inc.	Nexus 3000	
Silicone Oil	Dow Corning	200 fluid, 10 cSt	Optional for Emulsion Storage