

Materials List for:

A Versatile Automated Platform for Micro-scale Cell Stimulation Experiments

Anupama Sinha¹, Mais J. Jebrail², Hanyoung Kim^{2,3}, Kamlesh D. Patel⁴, Steven S. Branda²

¹Department of Systems Biology, Sandia National Laboratories

²Department of Biotechnology and Bioengineering, Sandia National Laboratories

³Canon U.S. Life Sciences

⁴Department of Advanced Systems Engineering and Deployment, Sandia National Laboratories

Correspondence to: Steven S. Branda at sbranda@sandia.gov

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Materials

Name	Company	Catalog Number	Comments
Prelude Direct Lysis Module	NuGEN	1400-24	
Trypan Blue (0.4% w/v)	GIBCO	15250-061	
Cell Stripper	Cellgro	25-056-C1	
Ovation PicoSL WTA	NuGEN	3310-048	
Agencourt RNAClean XP	Beckman Coulter Genomics	A63987	
pHrodo BioParticles	Invitrogen	P35361	
CCL4 TaqMan qRT-PCR assay	Applied Biosystems	Mm00443111_m1	
CCL5 TaqMan qRT-PCR assay	Applied Biosystems	Mm01302428_m1	
PTGS2 TaqMan qRT-PCR assay	Applied Biosystems	Mm00478374_m1	
TNF TaqMan qRT-PCR assay	Applied Biosystems	Mm00443258_m1	
GAPDH TaqMan qRT-PCR assay	Applied Biosystems	Mm99999915_g1	
Pluronic F127	Sigma Chemical	2594628	
Fluorinert FC-40	Sigma Chemical	51142-49-5	
Parylene C dimer	Specialty Coating Systems	28804-46-8	
Teflon-AF	DuPont	AF1600	
Polyimide tape	ULINE	S-11928	
Indium tin oxide (ITO) coated glass substrates	Delta Technologies	CB-40IN-1107	
DMF hub Teflon-coated fused-silica microcapillaries	Polymicro Technologies	TSU100375	
Perfusion chamber microcapillaries	Polymicro Technologies	TSP530700	
Tubing and microcapillary fittings	Sandia National Laboratories		
Polycarbonate tubing	Paradigm Optics	CTPC100-500-5	
8-port precision syringe pump equipped with 30 mm (500 µl capacity) syringes	Hamilton Company	54848-01	
Parylene-C vapor deposition instrument	Specialty Coating Systems	PDS 2010 Labcoter 2	
High-voltage function generator	Trek	615A-1 615-3	
MVX10 microscope	Olympus		Optional (facilitates tracking of droplets on DMF hub)
QIClick digital CCD camera	QImaging	QIClick-F-CLR-12	Optional (facilitates tracking of droplets on DMF hub)