

Materials List for:

Separating Beads and Cells in Multi-channel Microfluidic Devices Using Dielectrophoresis and Laminar Flow

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Materials

Name	Company	Catalog Number	Comments
Sylgard 184 kit (PDMS)	Ellsworth Adhesives	184 SIL ELAST KIT 0.5KG	Dow Corning Sylgard
16 awg hook-up wire	Belden	8521	(Type MW) Mil-W-76C-PVC
Gold seal Cover Glass	Ted Pella, Inc.	260320	No. 0 thick, 24 x 60 mm
Miltex Biopsy Punch	VWR international	95039-104	Miltex, assorted sizes
Custom PCB electrodes	Bay Area Circuits	Custom parts	
Mineral oil	Fisher Scientific	O121-1	
Deionized water	House DI water supply	None	Use filtered DI water
D-Glucose Anhydrous Granular AR	Mallinckrodt Baker Inc.	4912-06	
Sucrose, Crystal	Mallinckrodt Baker Inc.	8360-06	
Fluorescent polymer microspheres	Bangs Laboratories	FS07F/9277	15µm Dragon green microspheres
HT-29 cell line	ATCC	HTB-38D	Human colon adenocarcinoma
Typosin 0.05% EDTA	Invitrogen	25300054	
Eclipse E600FN upright microscope	Nikon Instruments	Eclipse E600FN	
Phantom V310 High-speed imaging camera	Phantom	V310	
BX51 upright research microscope	Olympus Corporation	BX51	
SpotFlex high resolution color camera	Diagnostic Instruments	FX1520	
Function generator	Agilent Technologies	3325A	
RF Power amplifier	EIN	2100L	