

Materials List for:

Microfluidic Platform for Measuring Neutrophil Chemotaxis from Unprocessed Whole Blood

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Materials

Name	Company	Catalog Number	Comments
Device Fabrication			
SU-8	Microchem	Y131273	
Polydimethylsiloxane (PDMS)	Ellsworth Adhesives	Sylgard 184 1.1 lb. Kit	
Standard glass slides	Fisher Scientific	125495	1 X 3 inches
Glass-bottom plate	MatTek	P12G-1.5-14-F	
Harris Uni-Core, Tip Diameter 5.0 mm	Ted Pella, Inc.	15081	
Harris Uni-Core, Tip Diameter 1.5 mm	Ted Pella, Inc.	15072	
Microfluidic Assay Preparation and Analysis			
Gel-loading pipet tip	Fisher Scientific	02-707-139	
Syringe	Fisher Scientific	309602	
Blunt tip needle, 30 G ½ in.	Brico Medical Supply	BN3005	
Vacutainer, Heparin	Becton Dickinson		
HBSS	Sigma-Aldrich		
Human serum albumin	Sigma-Aldrich	A5843-5G	0.2% final concentration in HBSS
Fibronectin	Sigma-Aldrich	F0895-1MG	
fMLP	Sigma-Aldrich	F3506-10MG	
SurgiLance safety lancet, 2.2-mm depth, 22 G		SLN240	
Hoescht stain	Life Technologies	H3570	
Positive Control			
HetaSep	STEMCELL Technologies Inc.	7906	
EasySep Human Neutrophil Enrichment Kit	STEMCELL Technologies Inc.	19257	
Plasma Asher	March Instruments	P-250	
Lindberg/Blue M Oven	Thermo Scientific	13-258-30C	
Stainless Steel Precision Tweezers	Techni Tool	758TW458	
Bel-Art Scienceware Chemical-Resistant Vacuum Desiccator	Fisher Scientific	08-594-15A	
Dataplate Digital Hot Plate	Alpha Multiservices	PMC 720	

Nikon TiE inverted microscope	Nikon - Micro Video Instruments Inc.	MEA53100	
CFI Plan Fluor DL 10X NA 15.2 wd Objective	Nikon - Micro Video Instruments Inc.	MRH20101	
Lumen 200 with 2 Meter Light Guide for Nikon	Nikon - Micro Video Instruments Inc.	500-L200NI2	
DAPI/Hoechst/AMCA Narrow Band 32-mm Exciters - 25-mm Emitters	Chroma - Micro Video Instruments Inc.	31013v2	
Retiga R 2000 cooled CCD Camera 1,600 x 1,200 pixels	Qimaging - Micro Video Instruments Inc.	RET-2000R-F-M-12-C	