

Materials List for:

An All-on-chip Method for Rapid Neutrophil Chemotaxis Analysis Directly from a Drop of Blood

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Materials

Name	Company	Catalog Number	Comments
Device fabrication			
Mask aligner	ABM	N/A	
Spinner	Solitec	5000	
Hotplate	VWR	11301-022	
Plasma cleaner	Harrick Plasma	PDC-001	
Vacuum dessicator	Fisher Scientific	08-594-15A	
Digital scale	Ohaus	CS200	
SU-8 2000 thinner	Microchem	SU-8 2000	
SU-8 2025 photoresist	Microchem	SU-8 2025	
SU-8 developer	Microchem	SU-8 developer	
Si wafer	Silicon, Inc	LG2065	
Isopropyl alcohol	Fisher Scientific	A416-4	
(tridecafluoro-1,1,2,2-tetrahydrooctyl) trichlorosilane	Gelest	78560-45-9	
Polydimethylsiloxane (PDMS)	Ellsworth Adhesives	2065622	
Petri Dish	Fisher Scientific	FB0875714	
Glass slides	Fisher Scientific	12-544-4	
Cutting pad	N/A	N/A	Custom-made
Punchers	N/A	N/A	Custom-made
On-chip cell isolation and chemotaxis assay			
RPMI 1640	Fisher Scientific	SH3025502	
DPBS	Fisher Scientific	SH3002802	
Bovine serum albumin (BSA)	Sigma-Aldrich	SH3057402	
Fibronectin	VWR	CACB356008	
fMLP	Sigma-Aldrich	F3506-10MG	

Magnetic disks	Indigo Instruments	44202-1	5 mm in diameter, 1 mm thick
FITC-Dextran	Sigma-Aldrich	FD10S	
Rhodamine	Sigma-Aldrich	R4127-5G	
Giemsa stain solution	Rowley Biochemical Inc.	G-472-1-8OZ	
EasySep Direct Human Neutrophil Isolation Kit	STEMCELL Technologies Inc	19666	
Dithiothreitol	Sigma-Aldrich	D0632	
Nikon Ti-U inverted fluorescent microscope	Nikon	Ti-U	
Microscope environmental chamber.	InVivo Scientific	N/A	
CCD camera	Nikon	DS-Fi1	