

Materials List for:

Flow-pattern Guided Fabrication of High-density Barcode Antibody Microarray

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Materials

Name	Company	Catalog Number	Comments
Sylgard 184 silicone elastomer base	Dow Corning	3097366-1004	
Sylgard 184 silicone elastomer curing agent	Dow Corning	3097358-1004	
SU-8 2025 photoresist	MicroChem	Y111069	
Silicon wafers	University Wafers	452	
Poly-L-lysine coated glass slides	Thermo Scientific	C40-5257-M20	
Oligonucleotides	Integrated DNA Technologies		*Custom-ordered from Integrated DNA Technologies, see Table 2 .
Poly-L-lysine adhesive stock solution	Newcomer Supply	1339	
Bis (sulfosuccinimidyl) suberate (BS3)	Thermo Scientific	21585	
1x Phosphate buffered saline, pH 7.4	Quality Biological	114-058-101	
Äkta Explorer 100 Fast Protein Liquid Chromatography (FPLC) System	GE (Amersham Pharmacia)	18-1112-41	
Superose 6 10/300 GL column	GE Healthcare Life Sciences	17-5172-01	
Capture antibodies	various	various	*Antibody selection depends on application
Succinimidyl-6-hydrazino-nicotinamide (S-HyNic)	Solulink	S-1002	
Succinimidyl-4-formylbenzamide (S-4FB)	Solulink	S-1004	
<i>N,N</i> -dimethylformamide	Sigma-Aldrich	227056	
Citric acid, anhydrous	Acros	42356	
Sodium hydroxide	Fisher Scientific	S318	
Amicon Ultra spin filter 10 kDa MWCO	EMD Millipore	UFC201024	
Spin coater	Laurell Technologies	WS-650-MZ	
Biopsy punch with plunger (1.0 mm diameter)	Ted Pella, Inc.	15110-10	
Diamond scribe (Style 60)	SPI supplies	6004	
Trimethylchlorosilane	Sigma Aldrich	92361	