

Materials List for:

Assembly and Tracking of Microbial Community Development within a Microwell Array Platform

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Materials

Name	Company	Catalog Number	Comments
Parylene N	Specialty Coating Systems	CAS NO.:1633-22-3	
Parylene coater	Specialty Coating Systems	Labcoter 2 Parylene Deposition Unit PDS2010	
Silicon Wafer	WRS Materials	100mm diameter, 500-550µm thickness, Prime, 10-20 resistivity, N/Phos<100>.	
adhesion promoter	Shin-Etsu Microsci	MicroPrime P20 adhesion promoter	
postive tone photoresist	Rohm and Haas Electronics Materials LLC (Owned by Dow)	Microposit S1818 Positive Photoresist (code 10018357)	
Quintel Contact Aligner	Neutronix Quintel Corp	NXQ 7500 Mask Aligner	
Reactive Ion Etching Tool	Oxford Instruments	Plasmalab System 100 Reactive Ion Etcher	
R2A Broth	TEKnova	R0005	
Bovine Serum Albumin	Sigma	A9647	
Multimode Plate Reader	Perkin Elmer	Enspire, 2300-0000	
Fluorescent Microscope	Nikon	Eclipse Ti-U	
Automated Stage	Prior	ProScan III	
CCD camera	Nikon	DS-QiMc	
Stage-top environmental control chamber	In Vivo Scientific	STEV ECU-HOC	
Phosphate Buffered Saline	ThermoFisher Scientific	14190144	
UltraPure Agarose	ThermoFisher Scientific	16500500	
25 x 75 mm No. 1.5 coverslip	Nexterion	High performance #1.5H coverslips	
Fluorescence Reference Slides	Ted Pella	2273	
Physical Stylus Profilometer	KLA Tencor	P-6	
lab wipes	Kimberly Clark	Kimipe KIMTECH SCIENCE Brand, 34155	
commercial software	Nikon	NIS Elements	
Zeiss 710 Confocal Microscope	Zeiss		
filter cubes	Nikon	Nikon FITC (96311), Nikon Texas Red(96313)	