

Materials List for:

AC Electrokinetic Phenomena Generated by Microelectrode Structures

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Materials

Name	Type	Company	Catalog Number	Comments
2" by 4" Pyrex Glass Slide	Substrate			Pyrex 7740
chrome mask	material			This photomask will have the mic-lectrode patterns on them and can be ordered from a variety of microfabrication centers.
PDMS Microchannels	material			These may be fabricated and used in-house or a simple microscope slide will suffice.
Hydrogen Peroxide 30%	Reagent	Fisher Scientific	7722-84-1	Certified ACS, Fisher Scientific
Sulfuric Acid	Reagent	Fisher Scientific	A300-212	Certified ACS Plus
Acetone Electronic Grade	Reagent	Fisher Scientific	A946-4	
ShIPLEY 1827 Positive Photoresist	Reagent	MicroChem Corp.		
ShIPLEY 351 Developer	Reagent	MicroChem Corp.		
Gold Etchant	Reagent	Transene Company, Inc.	Type TFA	
Chrome Photomask Etchant	Reagent	Cyantek Corporation	CR-7S	
NR-7 1500 PY Negative Resist	Reagent	Futurrex		
RD6 Developer	Reagent	Futurrex		