

Materials List for:

Preparation of Mica and Silicon Substrates for DNA Origami Analysis and Experimentation

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Materials

Name	Company	Catalog Number	Comments
Eppendorf epT.I.P.S. Reloads, capacity 2-200 µl	VWR International, LLC	22491733	10 reload tray of 96 tips
Microcentrifuge Tubes, Polypropylene	VWR International, LLC	87003-290	0.65 ml, natural
Research Plus Pippete - Single Channel - 20-200 µl	A. Daigger & Company, Inc.	EF8960F-3120000054 EACH	Adjustable Volume
Research Plus Pippete - Single Channel - 2-20 µl	A. Daigger & Company, Inc.	EF8960D-3120000038 EACH	Adjustable Volume
Scotch 237 Permanent Double-Sided Tape	Office Depot, Inc.	602710	3/4" x 300", Pack of 2
Vortex Mixer	Thermo Scientific	M37610-33Q	
Wafer container single, 2" (50 mm), 60 mm x 11 mm	Electron Microscopy Sciences	64917-2	6 per pack
6" Wafer, P-type, <100> orientation, w/ primary flat	Nova Electronic Materials, Ltd.	GC49266	
Powder-Free Nitrile Examination Gloves	VWR International, LLC	82062-428	Catalog number is for size large
High Accuracy Noncontact probes with Au reflective coating	K-Tek Nanotechnology, Inc.	HA_NC/15	
Autoclave Pan	A. Daigger & Company, Inc.	NAL692-5000 EF25341C	
Sol-Vex II Aggressive Gloves, Size: 9-9.5; 15 mil, 13 inch - 1 dz	Spectrum Chemical Mfg. Corp.	106-15055	Before use, rinse with water and scrub together until no bubbles form on the gloves.
Tweezers PTFE 200 mm Square	Dynalox Corp.	316504-0002	
Muscovite Mica Sheets V-5 Quality	Electron Microscopy Sciences	71850-01	10 per pack
Mica Disc, 10 mm	Ted Pella, Inc	50	Mica discs are optional
Scriber Diamon Pen for Glassware	VWR International, LLC	52865-005	
Scintillation Vials, Borosilicate Glass, with Screw Cap - 20 ml	VWR International, LLC	66022-060	Case of 500, with attached polypropylene cap and pulp foil liner
4 x 5 Inch Top PC-200 Hot Plate, 120 V/60 Hz	Dot Scientific, Inc.	6759-200	
Straight-Sided Glass Jars, Wide Mouth	VWR International, LLC	89043-554	Case of 254, caps with pulp/vinyl liner attached
Standar-Grade Glass Beaker, 250 ml Capacity	VWR International, LLC	173506	
Beakers, PTFE	VWR International, LLC	89026-022	For use with HF

Shallow form watch glass, 3"	VWR International, LLC	66112-107	Case of 12
Plastic Storage Container	VWR International, LLC	470195-354	For secondary container
General-Purpose Liquid-In-Glass Thermometers	VWR International, LLC	89095-564	
High precision and ultra fine tweezers	Electron Microscopy Sciences	78310-0	
Polycarbonate Faceshield	Fisher Scientific, Inc.	18-999-4542	
Neoprene Apron	Fisher Scientific, Inc.	19-810-609	
Calcium Gluconate, Calgonate	W.W Grainger, Inc.	13W861	Tube, 25 g
Hydrogen Peroxide 30% CR ACS 500 ml	Fisher Scientific, Inc.	H325 500	HARMFUL, TOXIC
3-Aminopropyltriethoxysilane	Gelest Inc.	SIA0610.0-25GM	Let warm to room temperature before use.
Ammonium hydroxide, 2.5 L	Fisher Scientific, Inc.	A669-212	HARMFUL, TOXIC
Hydrochloric acid	Fisher Scientific, Inc.	A144-212	HARMFUL, TOXIC
Hydrofluoric acid	Fisher Scientific, Inc.	A147-1LB	HARMFUL, TOXIC
MultiMode Nanoscope IIIa	Veeco Instruments, Inc.		Any AFM capable of tapping mode is suitable for analysis
Dunk basket	Made in lab	Made in lab	The dunk basket was made using the bottom of a PTFE bottle with holes drilled in, PTFE handle, and all PTFE screws.