

Materials List for:

A Closed-Type Wireless Nanopore Electrode for Analyzing Single Nanoparticles

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Materials

Name	Company	Catalog Number	Comments
Acetone	Sigma-Aldrich	650501	Highly flammable and volatile
Analytical balance	Mettler Toledo	ME104E	
Axopatch 200B amplifier	Molecular Devices		
Blu-Tack reusable adhesive	Bostik		
Centrifuge tube	Corning Inc.		Centrifuge Tubes with CentriStar Cap, 15 ml
Chloroauric acid	Energy Chemical	E0601760010	HAuCl ₄
Clampfit 10.4 software	Molecular Devices		
Digidata 1550A digitizer	Molecular Devices		
DS Fi1c true-color CCD camera	Nikon		
Ecoflex 5 Addition cure silicone rubber	Smooth-On	17050377	
Eppendorf Reference 2 pipettes	Eppendorf	492000904	10, 100 and 1000 µL
Ethanol	Sigma-Aldrich	24102	Highly flammable and volatile
Faraday cage			Copper
iXon 888 EMCCD	Andor		
Microcentrifuge tubes	Axygen Scientific		0.6, 1.5 and 2.0 mL
Microloader	Eppendorf	5242 956.003	20 µL
Microscope Cover Glass	Fisher Scientific	LOT 16938	20 mm*60 mm-1 mm thick
Milli-Q water purifier	Millipore	SIMS00000	Denton Electron Beam Evaporator
P-2000 laser puller	Sutter Instrument		
Pipette tips	Axygen Scientific		10, 200 and 1,000 µL
Potassium chloride, +D25+A2:F2+A2:F25	Sigma Aldrich	P9333-500G	KCl
Quartz pipettes	Sutter	QF100-50-7.5	O.D.:1.0 mm, I.D.:0.5 mm, 75 mm length
Refrigerator	Siemens		
Silicone thinner	Smooth-On	1506330	
Silver wire	Alfa Aesar	11466	
Sodium borohydride,	Tianlian Chem. Tech.	71320	NaBH ₄
Ti-U inverted dark-field microscope	Nikon		