

Materials List for:

High Resolution Physical Characterization of Single Metallic Nanoparticles

Jessica Ettegui^{1,2}, Jacob Forstater^{1,2}, Joseph W. Robertson¹, John J. Kasianowicz^{1,3}

¹Physical Measurement Laboratory, National Institute of Standards and Technology

²Department of Chemical Engineering, Columbia University

³Department of Applied Physics and Applied Math, Columbia University

Correspondence to: Jessica Ettegui at jessicaettegui@gmail.com

URL: <https://www.jove.com/video/58257>

DOI: [doi:10.3791/58257](https://doi.org/10.3791/58257)

Materials

Name	Company	Catalog Number	Comments
Nanopatch DC System	Electronic Biosciences, Inc., EBS		
Millipore LC-PAK	Millipore vacuum filter		
1,2-Diphytanoyl-sn- Glycero-3-Phosphocholine (DPHPC)	Avanti Polar Lipids, Alabaster, AL	850356P	
<i>Decane, ReagentPlus, ≥99%</i>	Sigma-Aldrich	D901	
αHL	List Biological Laboratories, Campbell, CA		
Ag wire	Alfa Aesar		
2 mm Ag/AgCl disk electrode	In Vivo Metric	E202	
High-impedance amplifier system	Electronic Biosciences, San Diego, CA		
quartz capillaries			
custom polycarbonate test cell			
Data Processing and Analysis MOSAIC	https://pages.nist.gov/mosaic/		
Phosphotungstic acid hydrate	Sigma-Aldrich	455970	
Sodium Chloride	Sigma-Aldrich	S3014	
sodium phosphate monobasic monohydrate	Sigma-Aldrich	71507	