

Materials List for:

# Monitoring Protein Adsorption with Solid-state Nanopores

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URL: <https://www.jove.com/video/3560>

DOI: [doi:10.3791/3560](https://doi.org/10.3791/3560)

## Materials

Name	Company	Catalog Number	Comments
Tecnai F20 S/TEM	FEI		S/TEM requires acceleration voltage $\geq 200\text{kV}$ and field-emission source.
20 nm thick silicon nitride membrane window for TEM	SPI Supplies	4163SN-BA	
Axon Axopatch 200B patch-clamp amplifier	Molecular Devices		
Axon Digidata 1440A	Molecular Devices		
pCLAMP 10 software	Molecular Devices		Electrophysiology Data Acquisition and Analysis Software
Sulfuric Acid	Fisher Scientific	A300	
hydrogen peroxide	Fisher Scientific	H325	
silicone O-rings	McMaster-Carr	003 S70	Alternatively use PDMS
silver wire	Sigma-Aldrich	348759	For electrodes
SPC Technology, D sub contact, pin	Newark Inc	9K4978	For electrodes
potassium chloride	Sigma-Aldrich	P9541	
potassium phosphate dibasic	Sigma-Aldrich	P2222	
potassium phosphate monobasic	Sigma-Aldrich	P5379	
PDMS	Dow Corning		Sylgar 184 Elastomer set. For making chamber.
Kwik-Cast Sealant	World Precision Instruments, Inc.	KWIK-CAST	Fast acting silicone sealant
hot plate	Fisher Scientific		
Faraday cage			