

Materials List for High-Performance Graphene-Modified Sensing Chip for SARS-CoV-2 Detection

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URL: <https://www.jove.com/video/64730>

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Materials

Name	Company	Catalog Number	Comments
Amyloid β 1-42 Protein	Merck (Sigma-Aldrich)	107761-42-2	
anti-SARS-CoV-2 Spike (S1) monoclonal IgG antibody	SinoBiological	40150-R007	
EDC [N-(3-dimethylaminopropyl)-N'-ethylcarbodiimide hydrochloride]	Thermo Fisher Scientific	A35391	
Ethyl alcohol (C ₂ H ₅ OH)	Sigma-Aldrich		
Hydrogen peroxide (H ₂ O ₂)			
Kapton tape			polyimide tape
NHS (NHydroxysuccinimide, 98+%; C ₄ H ₅ NO ₃)	Thermo Fisher Scientific	A39269	
PBS			
Prostate-specific antigen	Sigma-Aldrich	P3338-25UG	
SARS-CoV-2 Spike S1-His recombinant protein	SinoBiological	40591-V08H	
Single layer Graphene Oxide	Graphene Supermarket		
Spin Coater	High Precision Spin Coater (Spin Coating System)		ACE-200
Sulfuric acid (H ₂ SO ₄)			