

Materials List for:

Enzymatic Synthesis and Immobilization of Polymerized Protein for Single-Molecule Force Spectroscopy

Yibing Deng¹, Bin Zheng¹, Yutong Liu¹, Shengchao Shi¹, Jingyuan Nie¹, Tao Wu¹, Peng Zheng¹

¹State Key Laboratory of Coordination Chemistry, School of Chemistry and Chemical Engineering, Nanjing University

Correspondence to: Peng Zheng at pengz@nju.edu.cn

URL: <https://www.jove.com/video/60774>

DOI: [doi:10.3791/60774](https://doi.org/10.3791/60774)

Materials

Name	Company	Catalog Number	Comments
iron (III) chloride hexahydrate	Energy chemical		99%
Zinc chloride	Alfa Aesar		100.00%
calcium chloride hydrate	Alfa Aesar		99.9965% crystalline aggregate
L-Ascorbic Acid	Sigma Life Science		Bio Xtra, ≥99.0%, crystalline
(3-Aminopropyl) triethoxysilane	Sigma-Aldrich		≥99%
sulfosuccinimidyl 4-(N-maleimidomethyl) cyclohexane-1-carboxylate	Thermo Scientific		90%
Glycerol	Macklin		99%
5,5'-dithiobis(2-nitrobenzoic acid)	Alfa Aesar		
Genes	Genscript		
Equipment			
Nanowizard 4 AFM	JPK Germany		
MLCT cantilever	Bruker Corp		
Mono Q 5/50 GL	GE Healthcare		
AKTA FPLC system	GE Healthcare		
Glass coverslip	Sail Brand		
Nanodrop 2000	Thermo Scientific		
Avanti JXN-30 Centrifuge	Beckman Coulter		
Gel Image System	Tanon		