Materials List for:

Investigating Receptor-ligand Systems of the Cellulosome with AFM-based Single-molecule Force Spectroscopy

Markus A. Jobst*[1], Constantin Schoeler*[1], Klara Malinowska[1], Michael A. Nash[1]

[1]Lehrstuhl für Angewandte Physik and Center for Nanoscience, Ludwig-Maximilians-Universität

*These authors contributed equally

Correspondence to: Michael A. Nash at michael.nash@physik.uni-muenchen.de

URL: https://www.jove.com/video/50950
DOI: doi:10.3791/50950

Materials

Name	Company	Catalog Number	Comments
3-Aminopropyl dimethyl ethoxysilane	ABCR GmbH	AB110423	
5 kDa NHS-PEG-maleimide	Rapp Polymer	13 5000-65-35	
TCEP Disulfide reducing gel	Thermo Scientific, Pierce	77712	www.thermoscientific.com/pierce
Tris(hydroxymethyl)aminomethane			
BioLever mini silicon nitride cantilevers	Olympus	BL-AC40TS-C2	Soft batches
XYZ Piezoelectric actuators	Physik Instrumente GmbH		
Infrared “broad spectrum” IR laser	Superlum		
MFP-3D AFM Controller	Asylum Research		
Igor Pro 6.31	Wavemetrics		Data acquisition and analysis
Sodium chloride			
Calcium chloride			
pH Meter			
Sodium borate			
Tweezers			
Cover glasses	Thermo Scientific, Menzel-Gläser		24 mm diameter, 0.5 mm thickness
PTFE sample holder			custom made
Sonicator bath			
Ethanol			analytical purity
Sulfuric acid (concentrated)			analytical purity
Hydrogen peroxide (30%)			analytical purity
Orbital shaker			
Toluene			analytical purity
Filter paper			
Glass slides			
Microtubes			
Micropipettes			
Centrifuge			suitable for microtubes
Rotator			
Petri dishes			
Beakers			
Optical microscope			

