

Materials List for:

Force Spectroscopy of Single Protein Molecules Using an Atomic Force Microscope

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Materials

Name	Company	Catalog Number	Comments
AFM Specimen Discs, 15mm diameter	Ted Pella, Inc.	16218	Serve as base for glass substrate
Round Glass Coverslips, 15mm diameter No.1 Thick	Ted Pella, Inc.	26024	serve as glass substrate and base for gold coating
Adhesive Tabs	Ted Pella, Inc.	16079	Paste on AFM Specimen Discs to provide a sticky face for attaching glass coverslips
STD Multimode head assembly	Bruker Nano Inc.	1B75C	AFM head
Glass probe holder	Bruker Nano Inc.	MTFML-V2	Glass probe holder for scanning in fluid with the MultiMode AFM.
Microlever AFM probes	Bruker Nano Inc.	MLCT	Silicon Nitride cantilevers with Silicon Nitride tips, ideal for contact imaging modes
AFM probes with Au coated tips	Bruker Nano Inc.	OBL-10	Cantilevers for pulling on proteins with low unfolding force
Multifunction Data Acquisition (DAQ) Card, 16-Bit, 1 MS/s (Multichannel), 1.25 MS/s (1-Channel), 32 Analog Inputs	National Instruments	PCI-6259	Data Acquisition for signals from AFM head and Piezo Actuators
LISA Linear Piezo Stage Actuators	Physik Instrumente LP	P-753.11C	Piezo Actuator to control the position of substrate and perform pulling measurements
XY Piezo Stage	Physik Instrumente LP	P-541.2CD	Piezo Actuator to control the position of substrate and scan on substrate surface