

Materials List for:

Flexural Rigidity Measurements of Biopolymers Using Gliding Assays

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URL: <https://www.jove.com/video/50117>

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Materials

Name	Company	Catalog Number	Comments
Reagents			
imidazole	Sigma-Aldrich	I2399	
potassium chloride	Sigma-Aldrich	P9541	
magnesium chloride	Sigma-Aldrich	M8266	
EGTA	Sigma-Aldrich	E3889	
BSA	Calbiochem	126615	
biotinylated BSA	Thermo Scientific	29130	
α -casein	Sigma-Aldrich	C6780	
streptavidin	Thermo Scientific	21125	
dithiothreitol	Sigma-Aldrich	D0632	
paclitaxel	LC Laboratories	P-9600	
glucose oxidase	Sigma-Aldrich	G2133	
catalase	Sigma-Aldrich	C100	
glucose	Sigma-Aldrich	G8270	
ATP	Sigma-Aldrich	A2383	
2-mercapt-ethanol	Sigma-Aldrich	M3148	Toxic. Buy small amount.
24X60 mm No. 1 1/2 cover glass	VWR	48393-252	
22X22 mm No. 1 cover glass	Gold Seal	3306	
High Vacuum Grease	Dow-Corning	NA	
Equipment			
TIRF microscope	many	NA	The TIRF microscope used in this method was home-made.
IDL (software)	Exelis	NA	Could substitute MATLAB, ImageJ, or other image analysis software.