

Materials List for:

Cargo Loading onto Kinesin Powered Molecular Shuttles

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Materials

Name	Company	Catalog Number	Comments
Adenosine-5'-triphosphate (ATP)	Invitrogen	A1049	
Biotin tubulin	Cytoskeleton, Inc.	T333	
Casein	Sigma-Aldrich	C-0376	
Catalase	Sigma-Aldrich	C-9322	
D-(+)-Glucose	Sigma-Aldrich	G-7528	
Dimethylsulfoxide (DMSO)	Sigma-Aldrich	D-8779	
Dithiotreitol (DTT)	Bio-Rad	161-0610	
Ethylene glycol-bis(2-aminothylether)-N,N,N',N'-tetraacetic acid (EGTA)	Sigma-Aldrich	E-4378	
FluoSpheres Biotinylated microspheres, 40 nm, yellow-green fluorescent (505/515)	Invitrogen	F-8766	
Glucose oxidase	Sigma-Aldrich	G-7016	
Guanosine-5'-triphosphate (GTP)	Roche Group	106399	
Magnesium Chloride (MgCl ₂)	Sigma-Aldrich	63069	
Paclitaxel (Taxol)	Sigma-Aldrich	T1912	
1,4-Piperazinediethanesulfonic acid, Piperazine-1,4-bis(2-ethanesulfonic acid), Piperazine-N,N'-bis(2-ethanesulfonic acid) (PIPES)	Sigma-Aldrich	P-6757	
Potassium hydroxide (KOH)	Sigma-Aldrich	P-6310	
Sodium hydroxide (NaOH)	Sigma-Aldrich	480878	
Streptavidin Alexa Fluor 568 conjugate	Invitrogen	S11226	