

Materials List for:

# Characterization of Glycoproteins with the Immunoglobulin Fold by X-Ray Crystallography and Biophysical Techniques

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URL: <https://www.jove.com/video/57750>

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## Materials

Name	Company	Catalog Number	Comments
0.22 µm Steritop filter	EMD Millipore	SCGPS02RE	
10 well 4-15% gradient SDS-PAGE gel	Bio-Rad	4561084	
10x glycobuffer 3	New England Biolabs	P0702S	Comes with Endo H reagent
10x Kinetics Buffer	PALL FortéBio	18-1092	
10x Tris/Glycine/SDS Buffer	Bio-Rad	1610732	
1 mL round bottom 96 well block	ThermoFisher	260251	
22 mm cover slip	Hampton research	HR3-231	
4x Laemmli Sample Buffer	Bio-Rad	1610747	
96-3 well INTELLIPLATE low volume reservoir	Art Robbins Instruments	102-0001-03	
Agel	New England Biolabs	R0552S	
ÅKTA Pure	GE Healthcare		
ÅKTA Start	GE Healthcare		
Amicon Ultra 15 centrifugal filtration device 10KDa MWCO	Millipore	UFC901008	
Amicon Ultra 4 centrifugal filtration device 10KDa MWCO	Millipore	UFC801008	
Auto-iTC200	Malvern		
Axygen MaxyClear Snaplock 1.5 mL microtubes	Fisher Scientific	MCT150C	
Countess Cell Counting Chamber Slides	Thermo Fisher Scientific	C10228	
CryoLoop 18 x 0.05-0.1 mm	Hampton research	HR4-945	
CryoLoop 18 x 0.1-0.2 mm	Hampton research	HR4-947	
CryoLoop 18 x 0.2-0.3 mm	Hampton research	HR4-970	
Digital Dry Bath	Bio-Rad	1660562EDU	
<i>E. coli</i> DH5α	Invitrogen	18258012	
Endo H	New England Biolabs	P0702S	
Erlenmeyer flask (baffled base), polycarbonate, sterile, 500 mL, DuoCAP	TriForest Labware	FBC05000S	
Erlenmeyer flask 125 mL (baffled base), polycarbonate, sterile, 125 mL with vented cap	VWR	89095-258	

Falcon Disposable sterile serological pipet, non-pyrogenic, 10 mL	Greiner Bio-One	607180	
Falcon Disposable sterile serological pipet, non-pyrogenic, 25 mL	Greiner Bio-One	760180	
Falcon Disposable sterile serological pipet, non-pyrogenic, 5 mL	Greiner Bio-One	606180	
Falcon Disposable sterile serological pipet, non-pyrogenic, 50 mL	Greiner Bio-One	768180	
FectoPRO DNA Transfection Reagent, Polyplus	VWR	10118-842	
Freestyle 293F cells	Thermo Fisher Scientific	R79007	
Freestyle Expression medium	Thermo Fisher Scientific	12338001	
Heavy Atom Screens Au	Hampton research	HR2-444	
Heavy Atom Screens Hg	Hampton research	HR2-446	
Heavy Atom Screens M1	Hampton research	HR2-448	
Heavy Atom Screens M2	Hampton research	HR2-450	
Heavy Atom Screens Pt	Hampton research	HR2-442	
HEK 293S	ATCC	ATCC CRL-3022	
HisTrap Affinity Column	GE Healthcare	17525501	
HiTrap KappaSelect Affinity Columns	GE Healthcare	17545811	
HiTrap LambdaSelect Affinity Columns	GE Healthcare	17548211	
KpnI	New England Biolabs	R0142S	
MCSG-1 Crystal Screen 1.7 mL block	Anatrace	MCSG-1	
MCSG-2 Crystal Screen 1.7 mL block	Anatrace	MCSG-2	
MCSG-3 Crystal Screen 1.7 mL block	Anatrace	MCSG-3	
MCSG-4 Crystal Screen 1.7 mL block	Anatrace	MCSG-4	
Mercuric chloride	Sigma	1044170100	
Microplate, 96 well, polypropelene, flat bottom, black	Greiner Bio-One	655209	
Minstrel DT UV	Formulatrix		
Multitron Pro shaker	Infors HT	MP25-TA-CO2HB	
Nanodrop 2000/2000c Spectrophotometer	Thermo Fisher Scientific	ND-2000	
Nanosep 3K Omega centrifugal device	PALL Life Science	OD003C33	
Ni-NTA biosensors	PALL FortéBio	18-5102	
Octet RED96	PALL ForteBio		
Oryx 4 crystallization robot	Douglas Instrument	ORY-4/1	
Platinum chloride	Sigma	520632-1g	
Precision Plus Protein Standard	Bio-Rad	161-0374	
PureLink HiPure Plasmid Maxiprep Kit	Invitrogen	K210006	

Quick Coomassie Stain	Protein Ark	GEN-QC-STAIN-1L	
Steriflip Sterile 50 mL Disposable Vacuum Filtration System 0.22 µm Millipore Express	EMD Millipore	SCGP00525	
Superdex 200 Increase 10/300 GL	GE Healthcare	28990944	
Superose 6 10/300 GL	GE Healthcare	17517201	
Tantalum bromide cluster	Jena bioscience	PK-103	
Top96 Crystallization Screen	Rigaku Reagents	1009846	
Tryphan Blue	Thermo Fisher Scientific	T10282	
VDX 24-well with sealant	Hampton research	HR3-172	
α2-6 sialyllactose	Sigma Aldrich	A8556-1mg	