

Materials List for

# Native Cell Membrane Nanoparticles System for Membrane Protein-Protein Interaction Analysis

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jove.com/video/61298

## Materials

Name	Company	Catalog Number	Comments
<b>Chemicals</b>			
30% Acrylamide/BIS SOL (37.5:1)	Bio-Rad	161-0158	
4x Laemmli Sample Buffer (Loading Buffer)	Bio-Rad	1610747	
Acetic Acid Glacial	ThermoFisher Scientific	A38S-212	
Ammonium Persulfate (APS)	Bio-Rad	161-0700	
Chloramphenicol	Goldbio	C-105-5	
Coomassie Brilliant Blue R-250 protein stain powder	Bio-Rad	161-0400	
DTT (Dithiothreitol) (> 99% pure) Protease free	Goldbio	DTT10	
Glycerol	ThermoFisher Scientific	G33-4	
HEPES	ThermoFisher Scientific	BP310-1	
Imidazole	Affymetrix	17525 1 KG	
IPTG	Goldbio	I2481C100	
Kanamycin	Goldbio	K-120-25	
Magnesium chloride hexahydrate	ThermoFisher Scientific	AA3622636	
Methanol	ThermoFisher Scientific	A412-4	
N,N-dimethylethylenediamine (EDTA)	Merck	8.03779.0100	
NCMNS-P5-2	Not commercially available yet	Submit request for obtaining to corresponding author	
Precision Plus Protein Dual Color Standard	Bio-Rad	161-0374	
SDS (Sodium Dodecyl Sulfate)	Bio-Rad	161-0301	
SMA2000	Cray Valley	Submit request for obtaining to corresponding author	
Sodium Chloride	ThermoFisher Scientific	S271-10	
TCEP-HCl	Goldbio	TCEP25	
TEMED	Bio-Rad	161-0800	

Terrific Broth Media	Affymetrix	75856 1 KG	
Tris Base	Bio-Rad	161-0719	
Uranyl Acetate	Ambinter	Amb22348393	
<b>Equipment</b>			
Avanti J-26S XPI	Beckman Coulter	B14538	
Avanti JXN-30	Beckman Coulter	B34193	
Carbon Electron Microscope Grids (10 nm)	Electron Microscopy Sciences	CF300-Cu-TH	
Con-Torque Tissue Homogenizer	Eberbach	E7265	
Corning LSE Mini Microcentrifuge	ThermoFisher Scientific	07-203-954	
EmulsiFlex-C3	Avestin		
Fraction Collector F9-R	GE Healthcare Life Sciences	29003875	
Mini-PROTEAN Tetra Vertical Electrophoresis Cell	Bio-Rad	165-8004	
NanoDrop 2000 Spectrophotometer	ThermoFisher Scientific	ND-2000	
Optima L-90K Ultracentrifuge	Beckman Coulter	PN LL-IM-12AB	
PELCO easiGlow Glow Discharge Cleaning System	Ted Pella	91000S-230	
Potter-Elvehjem Safe Grind Tissue Grinder	Wheaton	358013	
PowerPac Basic Power Supply	Bio-Rad	164-5050	
Razel R99-E Variable Speed Syringe Pump	Razel Scientific Instruments		
Superdex 200 Increase 10/300 GL	GE Healthcare Life Sciences	28990944	
Tecnai F20 200kV	FEI		
Type 70 Ti Fixed-Angle Rotor	Beckman Coulter		
<b>General Materials</b>			
1.5 ml Microcentrifuge Tubes	ThermoFisher Scientific	05-408-129	
4 ml Amicon Ultra-4 30 kDa	Millipore Sigma	UFC803024	
AKTA pure 25 L1 FPLC	GE Healthcare Life Sciences	29018225	
BL21(DE3)pLysS Cells	ThermoFisher Scientific	C606003	
Falcon 50 ml Conical Centrifuge Tube	ThermoFisher Scientific	14-959-49A	
HisTrap HP 5 ml Column	GE Healthcare Life Sciences	17524802	
pET-24a	EMD Biosciences	69749-3	