

Preparation of Nucleosome Core Particles Complexed with DNA Repair Factors for Cryo-Electron Microscopy Structural Determination

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Materials

Name	Company	Catalog Number	Comments
1 M HEPES; pH 7.5	Thermo Fisher Scientific	15630080	
1 M MgCl ₂	Thermo Fisher Scientific	AM9530G	
10x TBE	Bio-rad	1610733	
25% glutaraldehyde	Fisher Scientific	50-262-23	
3 M KCl	Thermo Fisher Scientific	043398.K2	
491 prep cell	Bio-rad	1702926	
Amicon Ultra 15 centrifugal filter (MW cutoff 30 kDa)	Millipore Sigma	Z717185	
Amicon Ultra 4 centrifugal filter (MW cutoff 30 kDa)	Millipore Sigma	UFC8030	
AutoGrid Tweezers	Ted Pella	47000-600	
Automatic Plunge Freezer	Leica	Leica EM GP	
C-1000 touch thermocycler	Bio-rad	1851148	
C-clips and rings	Thermo Fisher	6640--6640	
Clipping station	SubAngostrom	SCT08	
Dialysis Membrane (MW cufoff 6-8 kDa)	Fisher Scientific	15370752	
Diamond Tweezers	Techni-Pro	758TW0010	
dsDNA	Integrated DNA techonologies	N/A	
FEI Titan Krios	Thermo Fisher	KRIOSG4TEM	
FPLC purification system	AKTA Pure	29018224	
Fraction collector Model 2110	Bio-rad	7318122	
Glow Discharge Cleaning System	Ted Pella	91000S	
Grid Boxes	SubAngostrom	PB-E	
Grid Storage Accessory Pack	SubAngostrom	GSAX	
Liquid Ethane	N/A	N/A	

Liquid Nitrogen	N/A	N/A	
Minipuls 3 peristaltic two-head pump	Gilson	F155008	
Nanodrop	Thermo Fisher Scientific	ND-2000	
Novex 16%, Tricine, 1.0 mm, Mini Protein Gels	Thermo Fisher Scientific	EC6695BOX	
Pipetman	Gilson	FA10002M	
Pipette tips (VWR) Low Retention	VWR	76322-528	
Polyacrylamide gel solution (37.5:1)	Bio-rad	1610158	
polyethylene glycol (PEG)	Millipore Sigma	P4338-500G	
Pur-A-lyzer Maxi 3500	Millipore Sigma	PURX35050	
Purified recombinant DNA repair factor	N/A	N/A	
R 1.2/1.3 Cu 300 mesh Grids	Quantifoil	N1-C14nCu30-01	
Recombinant histone octamer	N/A	N/A	
Spring clipping tools	SubAngostrom	CSA-01	
Superdex 200 column 10/300	Millipore Sigma	GE28-9909-44	
Transmission Electron Microscope	Thermo Fisher	Talos Arctica 200 kV	
Tweezers Assembly for FEI Vitrobot Mark IV-I	Ted Pella	47000-500	
UltraPure Glycerol	Thermo Fisher Scientific	15514011	
Vitrobot	Thermo Fisher	Mark IV System	
Whatman Filter paper (55 mM)	Cytiva	1005-055	
Xylene cyanol	Thermo Fisher Scientific	440700500	
Zeba Micro Spin Desalting Columns, 7K MWCO, 75 µL	Thermo Fisher Scientific	89877	