

Materials List for:

Examining Proteasome Assembly with Recombinant Archaeal Proteasomes and Nondenaturing PAGE: The Case for a Combined Approach

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URL: <https://www.jove.com/video/54860>

DOI: [doi:10.3791/54860](https://doi.org/10.3791/54860)

Materials

Name	Company	Catalog Number	Comments
Acrylamide (40%) solution	Biorad	1610104	Unpolymerized acrylamide is a neurotoxin. Wear proper protective gear
Amicon ultra 0.5 mL centrifugal filters	EMDMillipore	UFC501024	
Ammonium Persulfate	Sigma	A3678	
ATP	Sigma	A7699	
BCA assay kit	Pierce	23225	
Bisacrylamide (2%) solution	Biorad	1610142	
Bromophenol blue	Sigma	B8026	
DNaseI	Sigma	DN25	
Dithiothreitol (DTT)	Thermo Fisher	BP172	
<i>E. coli</i> BL21 competent cells	EMD Millipore	69450	
GelCode Blue	Thermo Fisher	24592	Colloidal coomassie stain reagent for gels
Gel doc EZ system	Biorad	1708270	Gel documentation system
Gel releasers	Biorad	1653320	Wedge shaped plastic used to separate gel plates; useful for spreading liquid.
Glass rod	Thermo Fisher	11-380B	
Glycerol	Sigma	49767	
Glycine	Thermo Fisher	BP3865	
Hamilton syringe	Thermo Fisher	14-813-38	Glass syringe for loading gels
HEPES	US Biologicals	H2010	
HMW Native calibration kit	GE Healthcare	170445-01	High molecular weight protein standards
Hoefler SG30	Thermo Fisher	03-500-277	Gradient maker
Imidazole	US Biologicals	280671	
IPTG	US Biologicals	I8500	For induction of protein expression
Isopropanol	Thermo Fisher	BP26181	
Kanamycin sulfate	US Biologicals	K0010	
Lysozyme	Sigma	L6876	
MgCl ₂	Fluka analytical	630680	
Mini Protean Tetra Cell	Biorad	1658002EDU	Gel electrophoresis apparatus
NaCl	Thermo Fisher	S640-3	
NaOH	Thermo Fisher	S318-1	

Pefabloc SC	Roche	11429876001	Protease inhibitor
pET42	EMD Millipore	70562	Expression plasmid
Precision plus all blue standard	Biorad	1610373	Molecular protein standard for SDS-PAGE
Quickchange mutagenesis kit	Agilent technologies	200521	
Sodium Dodecyl Sulfate (SDS)	Thermo Fisher	BP166	
Suc-LLVY-AMC	Enzo lifesciences	BML P802-0005	Fluorogenic substrate
Talon Metal Affinity Resin	Clontech	635502	Immobilized Cobalt Affinity Resin
TEMED	Sigma	T7024	
Tris	US Biologicals	T8600	
Triton-X100	Sigma	93426	
Tryptone	Bacto BD	211699	
UV sample tray	Biorad	1708271	For UV imaging of gels
Yeast extract	Bacto BD	212720	