

Materials List for

Removal and Replacement of Endogenous Ligands from Lipid-Bound Proteins and Allergens

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jove.com/video/61780

Materials

Name	Company	Catalog Number	Comments
Bla g 1 Gene	Genescript	N/a	Custom gene synthesis service. GenBank Accession no AF072219 Residues 34-216
Affinity purified natural Bla g 1 (nBla g 1)	Indoor biotechnologies	N/a	Custom order
Agilent 1100 Series HPLC System	Agilent	G1315B, G1311A, G1322A	UV Detector, Pump, and Degasser
Agilent DD2 600 MHz spectrometer	Agilent	N/a	
Amicon Ultra-15 Centrifugal Filter Unit	Amicon	UFC-1008	
Ampicillin	Fisher Scientific	BP1760-5	
Benzonase	Sigma-Aldrich	E1014-5KU	
Broad- band 5 mm Z-gradient probe	Varian	N/a	
ChemStation for LC (Software)	Agilent	N/a	
cOmplete Mini Protease Inhibitor Cocktail	Roche	11836153001	
Distearoylphosphatidylcholine (18:0 PC)	Avanti Polar Lipids	850365C	
E. Coli BL21 DE3 Cells	New England Biolabs	C2530H	
Freezone 4.5 Freeze Dry System	Labconco	7750000	
Glutathione Resin	Genescript	L00206	
Glutathione, Reduced	Fisher Scientific	BP25211	
Isopropyl-β-D-thiogalactopyranoside (IPTG)	Fisher Scientific	34060	
Jasco CD spectropolarimeter	Jasco	J-815	
Millex Syringe Filter Unit	EMD Millipore	SLGS033SS	
NMRPipe (Software)	Delaglio et al.	N/a	Delaglio, F. et al. Nmrpipe - a Multidimensional Spectral Processing System Based On Unix Pipes. <i>J. Biomol. NMR</i> 6, 277–293 (1995).
NMRViewJ (Software)	Johnson et al.	N/a	Johnson, B. A. & Blevins, R. A. NMR View: A computer program for the visualization and analysis of NMR

			data. J. Biomol. NMR 4, 603–614 (1994).
Oleic acid	Sigma-Aldrich	O1008	
Pierce BCA Protein Assay	Sigma-Aldrich	BCA1-1KT	
Polaris 5 C18-A 250x10.0 mm HPLC Column	Agilent	SKU: A2000250X100	
SD-200 Vacuum Pump	Varian	VP-195	
Sodium Cholate Hydrate	Sigma-Aldrich	C6445	
Sodium Palmitate	Sigma-Aldrich	P9767	
Sodium Stearate	Sigma-Aldrich	S3381	
VnmrJ (Software)	Varian	N/a	