Materials List for:

A Step-by-step Method for the Reconstitution of an ABC Transporter into Nanodisc Lipid Particles

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Materials

Name	Company	Catalog Number	Comments
Amicon Ultra-4 50K centrifugal filter	Millipore	UFC805008	Follow manufacturer's protocol for proper use
Bio-Beads SM-2 Adsorbent	Bio-Rad	152-3920	
E. *coli* total lipids	Avanti Polar Lipids	100500C	Dissolved in chloroform, handle as appropriate for an organic solvent
Ni sepharose HP resin	GE Healthcare	17-5268-01	
Phosphorous standard solution	Sigma-Aldrich	P3869	
pMSP1D1	Addgene	20061	
Superdex 200 HR 10/300	GE Healthcare	17-5172-01	

Table I. Specific reagents.

Name	Composition	Comments
DDM stock	10% w/v DDM	Resuspend in milliQ water and store at -20 °C
$MalFGK_2$ stock	1-2 mg/ml 50 mM Tris-HCl, pH7.9 100 mM NaCl 10% v/v glycerol 0.03% w/v DDM	Store at -70 °C after purification
MSP stock	10-15 mg/ml 50 mM Tris-HCl, pH7.9 100 mM NaCl 10% v/v glycerol	Store at -70 °C after purification in <1 ml aliquots and avoid excessive freeze/thaw cycles
Phospholipid stock	5 nM *E. coli* total lipids 0.5% w/v (10 mM) DDM 50 mM Tris-HCl, pH 7.9 50 mM NaCl	Store at 4 °C for 1 week
TS buffer	50 mM Tris-HCl, pH 7.9 50 mM NaCl	Store at 4 °C
TSG10 buffer	50 mM Tris-HCl, pH7.9 100 mM NaCl 10% v/v glycerol	Store at 4 °C
TSG20 buffer	50 mM Tris-HCl, pH8 100 mM NaCl 20% v/v glycerol	Store at 4 °C
TSGD buffer	50 mM Tris-HCl, pH7.9 100 mM NaCl 10% v/v glycerol 0.03% w/v DDM	Store at 4 °C and add DDM just before use

Table II. Solution recipes.

