

Materials List for:

Novel RNA-Binding Proteins Isolation by the RaPID Methodology

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Materials

Name	Company	Catalog Number	Comments
Tris	sigma	T1503	
SDS	bio-lab	1981232300	
DTT	sigma	D9779	
Acidic Phenol (pH 4.3)	sigma	P4682	
Acidic Phenol: Chloroform (5:1, pH 4.3)	sigma	P1944	
Chloroform	bio-lab	3080521	
Formaldehyde	Frutarom	5551820	
Glycine	sigma	G7126	
NP-40	Calbiochem	492016	
Heparin	Sigma	H3393	
Phenylmethylsulfonyl Flouride (PMSF)	Sigma	P7626	
Leupeptin	Sigma	L2884	
Aprotinin	Sigma	A1153	
Soybean Trypsin Inhibitor	Sigma	T9003	
Pepstatin	Sigma	P5318	
DNase I	Promega	M610A	
Ribonuclease Inhibitor	Takara	2313A	
Glass Beads	Sartorius	BBI-8541701	0.4-0.6mm diameter
Mini BeadBeater	BioSpec	Mini BeadBeater 16	
Guanidinium	Sigma	G4505	
Avidin	Sigma	A9275	
Streptavidin Beads	GE Healthcare	17-5113-01	
Bovine serum albumin (BSA)	Sigma	A7906	
Yeast tRNA	Sigma	R8508	
Biotin	Sigma	B4501	
Yeast extract	Bacto	288620	
peptone	Bacto	211677	
Glucose	Sigma	G8270	
1x Phosphate-Buffered saline (PBS)			
0.2 M NaOH			
4x Laemmli Sample Buffer (LSB)			0.2 M Tris-Hcl pH 6.8, 8% SDS, 0.4 M DTT, 40% glycerol, 0.04% Bromophenol-Blue.

Hot phenol lysis buffer			10 mM Tris pH 7.5, 10 mM EDTA, 0.5% SDS
3 M Sodium Acetate pH 5.2			
100% and 70% Ethanol (EtOH)			
RNase-free water			
RaPID lysis buffer			20 mM Tris pH 7.5, 150 mM NaCl, 1.8 mM MgCl ₂ , 0.5% NP-40, 5 mg/ml Heparin, 1 mM Dithiothreitol (DTT), 1 mM Phenylmethylsulfonyl Fluoride (PMSF), 10 µg/ml Leupeptin, 10 µg/ml Aprotinin, 10 µg/ml Soybean Trypsin Inhibitor, 10 µg/ml Pepstatin, 20 U/ml DNase I, 100 U/ml Ribonuclease Inhibitor.
2x Cross-linking reversal buffer			100 mM Tris pH 7.4, 10 mM EDTA, 20 mM DTT, 2 % SDS.
RaPID wash buffer			20 mM Tris-HCl pH 7.5, 300 mM NaCl, 0.5% NP-40
0.5 M EDTA pH 8			
Silver Stain Plus Kit	Bio-Rad	161-0449	For detecting proteins in polyacrylamide gels
SD selective medium			1.7 g/l Yeast nitrogen base with out amino acids and ammonium sulfate, 5 g/l Ammonium sulfate, 2% glucose, 350 mg/l Threonine, 40 mg/l Methionine, 40 mg/l Adenine, 50 mg/l Lysine, 50 mg/l Tryptophan, 20 mg/l Histidine, 80 mg/l Leucine, 30 mg/l Tyrosine, 40 mg/l Arginine
Anti-eEF3 (EF3A,YEF3)	Gift from Kinzy TG. (UMDNJ Robert Wood Johnson Medical School)	1:5,000	
Anti GFP antibody	Santa Cruz	sc-8334	1:3,000
Anti rabbit IgG-HRP conjugated	SIGMA	A9169	1:10,000