

Materials List for:

Chromatin Isolation by RNA Purification (ChIRP)

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Materials

Name	Company	Catalog Number	Comments
Buffer List:			
Dissolve a pellet of complete protease inhibitor in 1 ml water as 50x stock. Make 100 mM PMSF in isopropanol (100x stock). Superase-in is used as 200x stock. Store all at -20 °C.			
Lysis Buffer:			
50 mM Tris-Cl pH 7.0 10 mM EDTA 1% SDS Always add PMSF, P.I. and Superase-in fresh before use except when washing beads			
Proteinase K Buffer (for DNA)			
100 mM NaCl 10 mM TrisCl pH 8.0 (For RNA use pH 7.0) 1 mM EDTA 0.5% SDS Add 5% by volume Proteainse K (Ambion AM2546 20 mg/ml) fresh before use			
Hybridization Buffer			
750 mM NaCl 1% SDS 50 mM Tris-Cl pH 7.0 1 mM EDTA 15% formamide (store in the dark at 4 °C) Always add PMSF, P.I. and Superase-in fresh before use			
Wash Buffer			
2x NaCl and Sodium citrate (SSC) (diluted from 20x SSC Invitrogen stock) 0.5% SDS Always add PMSF fresh before use			
DNA elution Buffer			
50 mM NaHCO3 1% SDS			
Table of specific reagents and equipment:			
Glutaraldehyde (EM grade)	Sigma-Aldrich	G5882-10x10ml	
Motorized pellet mixer	VWR international	V8185-904	
Protease inhibitor	Roche Group	11873580001	
PMSF	Sigma-Aldrich	78830	
Superase-in	Ambion	AM2696	
Bioruptor	Diagenode	UCD-200	
Falcon tubes (for sonication)	Corning	430790	
Proteinase K	Ambion	AM2546	
PCR purification kit	Qiagen	28106	
C-1 magnetic beads	Invitrogen	65002	
PMSF	Sigma-Aldrich	P7626-25G	

DynaMag-15 magnet	Invitrogen	123-01D	
DynaMag-2 magnet	Invitrogen	123-21D	
MIRNeasy mini kit	Qiagen	217004	
Rnase H	Epicentre Biotechnologies	R0601K	
Rnase A	Sigma-Aldrich	R4875-100MG	
Phase Lock Gel Heavy	5 PRIME	2302810	
Trizol	Invitrogen	15596-018	
Phenol:chloroform:Isoamyl	Invitrogen	15593-031	
Chloroform	Ricca	RSOC0020-1C	
GlycoBlue	Ambion	AM9515	
Glycine	JT Baker	4057-06	
PBS, pH 7.4	Invitrogen	10010-049	
Elution Buffer (EB)	Qiagen	19086	
20x SSC	Invitrogen	15557-036	
10% SDS	Invitrogen	15553-027	
DNA-free	Ambion	AM1906	
Buffer kit	Ambion	AM9010	
Formamide	Invitrogen	15515-026	