

Materials List for:

A Chromatin Assay for Human Brain Tissue

Anouch Matevosian¹, Schahram Akbarian¹

¹Psychiatry, Brudnick Neuropsychiatric Research Institute, University of Massachusetts Medical School

Correspondence to: Schahram Akbarian at Schahram.Akbarian@umassmed.edu

URL: <https://www.jove.com/video/717>

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Materials

Name	Company	Catalog Number	Comments
Tris-HCl	EMD Millipore	9310	
Magnesium Chloride Hexahydrate	OmniPur, EMD Millipore	5980	
Calcium Chloride	Fisher Scientific	C614-3	
EDTA, 0.5M Solution, pH8.0	OmniPur, EMD Millipore	4055	
Sodium Chloride	Mallinckrodt Baker Inc.	7581-06	
SDS Solution 10% (w/v)	Bio-Rad	161-0416	
Triton X-100	Fluka	93426	
Igepal CA-630	Sigma-Aldrich	I-3021	
Sodium Deoxycholate	Sigma-Aldrich	D6750-25G	
Lithium Chloride	Sigma-Aldrich	L9650-100G	
Sodium Bicarbonate	Sigma-Aldrich	S7277-250G	
Sodium Acetate (anhydrous)	Sigma-Aldrich	S-2889	
Nuclease micrococcal from Staphylococcus	Sigma-Aldrich	N3755-200UN	
Benzamidine	Fluka	12072	
Phenylmethanesulfonyl fluoride	Sigma-Aldrich	P7626-1G	
3M DTT	Fluka	43815	
Protein G Agarose, Fast Flow	Upstate, Millipore	16-266	
Sonicated Salmon Sperm DNA Kit	Stratagene, Agilent Technologies	201190	
Proteinase K from Engyodontium album	Sigma-Aldrich	P2308	
Phenol:Chloroform 1:1	OmniPur, EMD Millipore	6810	
Glycogen, From Mussels	Sigma-Aldrich	G1767-1VL	
Ethyl Alcohol (200 Proof)	Pharmco-AAPER	111000200	

Solutions:

- nChIP Douncing Buffer : 10 mM Tris, 4 mM MgCl₂, 1 mM CaCl₂ adjust pH to 7.5
- 10x FSB: 50 mM EDTA, 200 mM Tris, 500 mM NaCl adjust pH to 7.5
- Low salt washing buffer: 0.1% SDS, 1% Triton X-100, 2 mM EDTA, 20 mM Tris (pH 8), 150 mM NaCl
- High salt washing Buffer: 0.1% SDS, 1% Triton X-100, 2 mM EDTA, 20 mM Tris (Ph 8), 500 mM NaCl
- Lithium Chloride Buffer: 1% IGEPAL-CA 630, 1% Deoxycholic acid, 1 mM EDTA (pH 8), 10 mM Tris (pH 8), 0.25 M LiCl
- TE buffer: 10 mM Tris (pH 8), 1 mM EDTA
- Elution Buffer: 0.1M NaHCO₃, 1% SDS
- Proteinase K digestion buffer (10X): 1M Tris, 50 mM EDTA, 2% SDS, 2M NaCl adjust pH to 8.0
- 3 M Sodium Acetate: 24.61 g anhydrous sodium acetate (M.W.=82.03) in 100 mL of autoclaved distilled water. Adjust pH to 5.2 using concentrated acetic acid.

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- High salt washing Buffer: 0.1% SDS, 1% Triton X-100, 2 mM EDTA, 20 mM Tris (Ph 8), 500 mM NaCl
- Lithium Chloride Buffer: 1% IGEPAL-CA 630, 1% Deoxycholic acid, 1 mM EDTA (pH 8), 10 mM Tris (pH 8), 0.25 M LiCl

- TE buffer: 10 mM Tris (pH 8), 1 mM EDTA
- Elution Buffer: 0.1M NaHCO₃, 1% SDS
- Proteinase K digestion buffer (10X): 1M Tris, 50 mM EDTA, 2% SDS, 2M NaCl adjust pH to 8.0
- 3 M Sodium Acetate: 24.61 g anhydrous sodium acetate (M.W.=82.03) in 100 mL of autoclaved distilled water. Adjust pH to 5.2 using concentrated acetic acid.