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Nuclear Botein Extraction
                                                          7/7/96
                                                           Buffer c
Buffer A
                            Buffer B
10 min HEPET pH7.9 - 100 MI
                             20min HEVES pH7.9 - 20gul 1m
                                                          round HEPES pH7.9 - 20 onl 1 m
10mm KCL - 10gul 1m
                              10% glyconol - 1 ml 100%
                                                           3070 gly cenol
                                                                         - 3 ml 100%
                - 15 nl 1 m
                                                           1. Sum Wyc/2
1.5mm Myclz
                              420mm Macl - 840M 5m
                                                                         -15al 1m
                              1.5 min Mycl2 - Igul Im
   d H 20 Sterile
                - to 10 mls
                                                          0.2 mm EDTA
                                                                         - gul o.sin
                              0.2 mm to 14 - 4 1 0.5 m
                                                                         - to 10 mb
                                                           dttro sterile
                                dttre sterile - to 10 mls
 Add: 1 m DTT - 50 ml/10 ml
                             l-to Buffer A,B and c just before use.
        long and Aportini - 10 per 10 ml
                             1- place buffers on ice for extended period of use.
- Collect 100 million cells et 1-2000 purs 10 mis at 4°C.
- Wash cells aree in cold PBS 25 mls. Pellet as above.
- Remopend in 4 Vols. to Size of the fellet in buffer A = sound - would
- Incubate on ice for I how. Transfer to donncer and homogenize 20-30 Strokes
- Wansfer to 1.5 mls eppendorf tube. Centrifue @ 2000 ypms 5 mms at 4°C.
- Aspirate and resuspend in I wil Buffer A. Centrifuge @ 2000 your 5 min at 40 and aspirate
- Rempend in 2 volumes pellet with knoper B.
- incubate on cie for 30 mins. Microfuge 20 unis @ 13,000 pms 4°c.
- transfer to fresh 1.5 ml eppendorf. Add equal volume of Buffer C.
- Snap freeze in dry lie ethanol bath. Store at -80°C
    Bredford Assay: 795M dH20

5M protein (NE)

200M Bradford | Dilution 1:200
  * Need Concentration of Nucleur Extract 3-5,my / jul
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Birding Buffer 20 min Phosphate bouffer PH6 10 mm Mgclz O.IMM GOTA 2 m W DTT 0.01% MP40 0-1 mm PrusF So-want Nacl 15% glyceno 1

_ * Binding vens were done in roul of building buffer

- For gel retardation protein factuois were added to building buffer Containe DalA Patreled probe (1000 - 5000 cpms) and poly de-de as non-specific Competitor

Protein Samples: Proffer C 20 mm pitassii phosphate bruffer pH6.0 10 mm Mgc/2 O. Imm ESTA

(man DTT

100mg/ml BSA

0.01 % NP40

O. I mm Pous F

10% glycerol

100 min Nacl

pusheri somples cliebyzed isoned Stored in this buffer

- 0. 25 mg 5'-end labeled Oligo in 1gal Exer vol. it zoong poly di-dc and 3-buy of Nuclear extract

- with purified protein no ploty (dī-dc) byt loong/ul BSA.

of Ineubotics:

1 - 15 mis R. T 2 - 30 mis R. T 3. - 1 have 4°C is antibody before EursA

For Gel Shift Assay:

Protocol:

Dialysis Buffer for purfied froteins Samples: Porfer C. Binding Buffer: 20 min Phogphate buffer PH6.0, 20 min K Poy Suffer PH6.0 10 mit Mgc/2 10mm Mgclz O.I mus EDTA Naz O.Imm FDTA 2 mm DTT I WIM DIT * proteins also stored in 0.01% PMSF 0.01% WP40 this buffer 100 mm Nacl O.Imm PMSF 15% Glycenol 10% glycerol 100 ng/ml BEA 100 mm Nacl

For Gel Retardation Assay:

- 1. Do room in total Ublane of Egul of building buffer
- 2. Amount of probe equivalent to 0.25 mg 51-end labeled oligo. With 200 mg poly di-de in coul buffer.
- 3. Ammt of protein in total in 3-6 mg
- 4. When using printied protein no poly dI-dc but loongful Bin
- 5. Incubate 1200 for 30 mis at R-Temp
- 6. For exus which includes authodies incubate for I have at 4°c prior to runing Eursa gel.