

100 pe 10x MOPS buffer

6x RM loading Buffer 30% Glycerol pinch BPB

trocedure

15 pl somple buffer

+ 5 pe RNA sample (togice 10-20 pg total RNA cr

0.5-1.0 µg poly A+) - Combine + heat to 65° 5' + Immediately place tube on ice to

Add 4 per lex loading buffer, mix + load into gel

- hingel out at V = buffer recirculation for best resolution or 3 hr at 84 V (incold room)

Then complete, leave get in costing tropp + gently soak/agitate in 3 charges of dd 40 = to 30'

- Photograph get over soron wrop

- Agidate gol in IOX SSC 15-301

Transfer

- Place blotting sporge in dish of IDX SSC

- Cover t whatman 314 cut to size

- invert gel on to pay 3M (get all air at by rolling

- have a pre welled gene screen out to size soaking in 10x55c - Durlay gel + remove air

- acray = 2 stres wet 3M

-cover & biothing paper/papertowels -cover & a glass plate + weight & 250 ml 120 bottle -cover while thing in soron - out to bottle -inver gel + membrane + mark wells - peocil
-Inver gel + membrane + mark wells = pencil
Jary + bake 80° 2hr
Prehyb + Hyb 5x SSPF
lox Dehhardts
50% Formanide
Sheared Salmon sperm our at 100 µg/ml heat denotured
re boil it!
\pm
gierch
- put dry Filer in bag
- add pertyp -> chase at bupbles + seal
-remove 12 prehyp > 15-50 ml tube 2 probe waiting want 106 - 25 × 106 cpm/ml of heat denatured
Probe > mix + readd to bag ; heat seal + mix up
-> 42° ovint

Washes

2X55C

0.1% 505 preheat 1/tr. to42°

0.27556 0.10/0503

preheat 1 Hr. to 60°

- 1emae Filer + place in ~ 300 ml 2×55c 0.1% 50s + wash 10-15 rypeat 2X

> 300ml 0-24 SSC 0.16505 -> 60° ~15'

-> blot diy + expose to film

Northern Blot using Formamide so we prely bridigati buffer Francide => 50% - 10 mls - 6 mbs 20 x 58 C >> 6 X 50 x Duharts - 2 mls =) SX 20% sds - 1 mls =) 1% 555 long/ml - 0.5 mb => 250, mg/ml ddHn - o mls Tris 2M p47-8 - 0.5 mls => 50 mm 20 mls

- leave ont formanide and do hypridizate at 68°c Wash 65°C, 1% 5DS low Stringer cy Wash: 0.12505, 478

2x 1 how Shen 2x 1 how at R. temp in O.1x SSC

Stripping 0.1xssc 270sDS. (201/201) Boil 30 minutes prehybridize (Keep wet.).

Northern Blots

Water 191 cc 222 cc 318.3 cc

Mops 5X 60 cc 70 cc 100 cc

Agarose 3 gms 3.5 gms 5.0 gms

Melt agarose in water and MOPS, then carefully add formaldehyde and cool in 55C water bath.

Formaldehyde 49 cc 57.2 cc 81.7 cc

Total Volume 300 cc 350 cc 500 cc

37% Formaldehyde is about 12.3 M. Use at 2.2 M so dilute by 5.6 fold

water 62.2 cc

5X MOPS 20 cc

agarose 1.3 gms

Formaldehyde 17.8 cc

NEN loading buffer

Formamide 720 ul

5X MOPS 320 ul

37% Formaldehyde 260 ul dH2O 100 ul

80% Glycerol 100 ul

Dry RNA down and resuspend in 20 ul loading buffer. Heat to 95C for 2 minutes.

5X MOPS

0.2 M MOPS 88.7 g

50 mM sodium acetate*3H2O13.6 g

5 mM EDTA 7.45 g

to 4 liters with water. pH to 7.0 with NaOH

Loading per sample

Formamide 7.5 ul

Formaldehyde 2.5 ul MOPS 5X 3.0 ul

Water 2.0 ul

Hybridization buffer for 50C.

Formamide 5 cc 50% SSC 20 x 2.5 cc 5X

SDS 20% 0.5 cc 1%

PVP/Ficoll₁ 1.0 cc 0.2%/0.02% final concentration

Pipes 0.5M 0.8 cc 40 mM SS DNA 10 mg/ml 0.1 cc 100 ug/ml