

HYBRIDIZATION OF NORTHERN BLOTS WITH RIBOPROBES.

1. Prehybridize filter for 1 - 2 hr at 50°C in **prehybridization buffer**.
2. Hybridize overnight at 50°C in **hybridization buffer**.
3. Wash filters at 50°C for 2 x 30' in **1 x wash buffer**.
4. Air dry filter and expose to film.
5. If filter is dirty after exposure, can RNAase treat to get rid of background but you will not be able to use the filter again. Incubate in **RNAase buffer** for 1 hour at 37°C and then rinse with RNAase buffer minus enzyme for a further 30' at 37°C.

Prehybridization buffer (100ml)

5 x SSC	25 ml 20 x
1% SDS	10 ml 10%
0.1% sodium pyrophosphate	1 ml 10%
5 x Denhardt's	5 ml 100 x
200 μgml^{-1} sheared ss DNA	2 ml 10mgml ⁻¹
50% deionized formamide	50 ml
	7 ml H ₂ O

Hybridization buffer (100ml)

5 x SSC	25 ml 20 x
1% SDS	10 ml 10%
0.1% sodium pyrophosphate	1 ml 10%
5 x Denhardt's	5 ml 100 x
200 μgml^{-1} sheared ss DNA	2 ml 10mgml ⁻¹
10% dextran sulphate	10 g
50% deionized formamide	50 ml
	up to 100 ml with H ₂ O

1 x wash buffer (2L)

1 x SSC	100 ml 20 x
1% SDS	20 g
0.1% sodium pyrophosphate	20 ml 10%
50% formamide	1L

100 x Denhardt's

10g Ficoll
 10 g polyvinylpyrrolidone
 10 g BSA
 up to 500 ml with H₂O

Sheared salmon sperm DNA

Dissolve herring sperm or salmon sperm DNA at 10mgml⁻¹ in dH₂O.
 Autoclave for 5' and rapidly cool. Store frozen in aliquots.

RNAase buffer (100ml)

20 µgml ⁻¹ RNAase A	200 µl 10 mgml ⁻¹
0.5 M NaCl	10 ml 5 M
10 mM Tris pH 8.0	500 µl 2M
1 mM EDTA	200 µl 0.5 M