

## Manual hybridization on slides , using lifterslips

### Equipment:

Waterbath 42°C

Heatingblock 95°C

### Prehybmix:

Volume 65-70  $\mu$ l for POP 2 chip

5X SSC (sterilefiltered)

50% Formamide (deionized)

5X Denhardts

100  $\mu$ g/ml Calf Thymus DNA

### Hybmix:

Volume 75-80  $\mu$ l for POP 2 chip

Target		39,4 $\mu$ l
Blocker		2 $\mu$ l
20X SSC	(20%)	16 $\mu$ l
100% Formamide	(25%)	20 $\mu$ l
10% SDS	(0,33%)	2,6 $\mu$ l

$\mu$  80  $\mu$ l

### Washbuffers:

1. 1X SSC, 0.03% SDS
2. 0.2X SSC
3. 0.05X SSC

### Blocker:

Polyadenylic acid (5') 5mg/ml SIGMA P-9403

Ribonucleic acid, transfer 5mg/ml SIGMA R-5636

**Prehybridization:**

Add 5- 8  $\mu$ l 25% Formamide in the small wells of the hybridization chamber.

Wash the Lifter slip before use:

- i) dH<sub>2</sub>O x 2
- ii) Et-OH 95-100%
- iii) Blow-dry with N<sub>2(g)</sub>

Place the cover slip on the slide and gently apply the hybridization mix (65-70  $\mu$ l), from one corner until the entire slide is covered.

Directly place in chamber, close and put in 42°C waterbath.

Incubate 30-50 min.

Open chamber and wash slide with tapwater until the lifterslip comes off.

Directly place the slide in 2-propanol and dry under nitrogen gas.

**Hybridization:**

Remember to set the heatingblock at 95°C

Wash the Lifter Slip before use, as previous.

Keep “darkness” when you start working with the hybmix.

Denature hybmix 2min at 95°C

Place on ice 15-20 sec, vortex and spin down, place on 42°C heatingblock.

Apply hybmix (75-80  $\mu$ l) on slide and place a coverslip on top, like for the prehybridisation

Directly place in chamber, close and put in 42°C waterbath

Incubate over night or ca 18 hours

**Washing:**

Wash at roomtemperature.

5 min with slow shaking in each washingbuffer.

Dry under nitrogen gas.