Buck Buffer

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Axel Lab 5/7/1998

For high stringency hybridization of library screens and southerns on nylon membranes.

*hybridize at 65 degrees C.
*Add salmon sperm DNA to 0.1-1 mg/ml before use.

0.5 M Sodium Phosphate pH 7.3
1% BSA
4% SDS

For 1 liter:
Prewarm about 800 ml distilled water to 65 degrees C. Do not exceed 65 degrees C or mixture will curdle and will have to be thrown out! Add Sodium Phosphate Dibasic:

103.21 g (Heptahydrate, FW=268.07)

****OR****

54.66 g (Anhydrous, FW=141.96)

Mix until dissolved. Then add Sodium Phosphate Monobasic:

15.87 g (Monohydrate, FW=137.99)

Mix until dissolved, then add slowly in small batches:

10 g BSA (any grade)

Finally, add slowly in small batches:

40 g SDS

Keep mixture stirring at no more than 65 degrees C until everything has dissolved. Sometimes this may take many hours and bottle may be placed in 65 degree C oven for several days to ensure completion. Store Buck Buffer at

room temperature. If SDS has precipitated, transfer bottle to 65 degree C oven to get everything back into solution.