

BISHOP LAB – Useful Recipes

DNA Ladder (0.5 μ g/ μ L)

10 μ L Concentrated (10X or 6X) Loading Dye

1 μ L 100X TE

5 μ L ϕ x174 + HaeIII (1 μ g/ μ L)

10 μ L λ + HindIII (0.5 μ g/ μ L)

74 μ L H₂O

100 μ L final volume

Mix reagents together, incubate at 65°C for 2 hours

Aliquot and store at 4°C or –20°C

Loading Dye

0.25% Bromophenol blue

0.25% Xylene cyanol

15% Ficoll 400

Dissolve in H₂O (will need to stir over heat in order to get Ficoll to dissolve)

Store indefinitely at room temperature

6x SDS-PAGE Loading Buffer

7mL 4x Tris-HCl/SDS buffer, pH 6.8 (SDS-PAGE stacking buffer)

3mL glycerol

1g SDS

0.93g DTT (0.6M final)

1.2mg bromophenol blue

Mix together and heat at 65°C until all SDS is in solution

Aliquot and store at –20°C