Last update – 5 28 10

MOWIOL
Recommended Anti-Fade for Fluorescence Microscopy, especially good for EGFP and other low expression reporting molecules

Mowiol goes into solution with difficulty. It's best to make a large batch and freeze aliquots at -20•C. Takes about 8 hours to prepare correctly.

Prepare in clean 250 ml flask or beaker
1) 24 g analytical grade glycerol (Sigma #G-6279)
2) 9.6 g Mowiol 4-88 (Fluka, #81381 (through Sigma))
3) 24 ml distilled water
4) 48 ml 0.2M Tris buffer, pH 8.5
final volume will be approximately 200 mls

5) Stir with a clean stir bar on a hot plate on warm (not boiling) ---- at least 4-5 hours until the majority of the Mowiol powder goes into solution.

6) Aliquot into 50 ml centrifuge tubes, weigh and balance

7) Centrifuge at 5000g for 15 min., there will be a pellet at the base, carefully remove the supernatant

8) Aliquot into 15 ml conical tubes – add only 10 mls for expansion.

9) Store at -20 for 12 months
Store at room temperature no more than one month

Note: There are recipes available for making Mowiol in 50 ml conical tubes – but we have found this method a problem for getting the most optimal concentration of Mowiol into solution. Therefore the recipe was changed to the above 200ml volume.