

30 min Silverstaining of 0.75 mm Minigels

Llinás Lab 2007

Reagents

- 50% acetone in water
- 50% TCA (Trichloroacetic Acid) in water
- 20% AgNO₃ (Silver Nitrate) in water – store in dark at 4°C, shelf life up to 4 months
- 10% Na₂S₂O₃·5H₂O or 6.3% anhydrous (Sodium Thiosulfate) in water
- 37% HCOH (Formaldehyde) this is how it is shipped and has a shelf life of up to 4 months
- 1% glacial acetic acid
- 1.2 g Na₂CO₃ (Sodium Carbonate)

1. Fix: 50 ml acetone stock, 1.5 ml TCA stock, 25 µl 37% HCOH for 5 min.
2. Rinse: ddH₂O (or equivalent) for 3 x 5 sec.
3. Wash: ddH₂O (or equivalent) for 5 min.
4. Rinse: ddH₂O (or equivalent) for 3 x 5 sec.
5. Pretreat: 50 ml acetone stock for 5 min.
6. Pretreat: 100 µl Na₂S₂O₃ stock in 50 ml water for 1 min.
7. Rinse: ddH₂O (or equivalent) for 3 x 5 sec.
8. Impregnant: 0.8 ml AgNO₃ stock, 0.6 ml 37% HCOH, 50 ml water for 8 min.
9. Rinse: ddH₂O 3 x 5 sec.
10. Develop: This is a very fast step, which can be slowed down using cold reagents in the cold room: 1.2 g Na₂CO₃ 25 µl 37% HCOH, 25 µl Na₂S₂O₃ stock, 50 ml water 10-20 sec.
11. Stop: 1% glacial acetic acid for 30 sec.
12. Rinse: ddH₂O (or equivalent) 10 sec.