

## Acid Violet Staining of Immobilized Gels and Strips

### Solutions

- \*20 % TCA (dilute 40ml of 100% TCA with 160 ml dd water)
- \*3% phosphoric acid (21 ml 85% phosphoric acid in 1L water)
- \*11% phosphoric acid (76 ml of 85% phosphoric acid in 1L water)
- \*1% Acid Violet stock solution (1 g acid violet in 100 ml of water. Heat to 50-60°C with magnetic stirring.)
- \*0.1% acid violet staining solution (20 ml 1% acid violet stock solution plus 180 ml 11% phosphoric acid)
- \*5% glycerol (5.4 ml of 87% glycerol in 1L water)

### Procedure

- \*Fix gel in 20% TCA for 30 to 60 min
- \*Rinse 1 min with 3% w/v phosphoric acid
- \*Stain 10 min in 0.1 % acid violet
- \*Destain with 3% phosphoric acid until background is clear
- \*Wash 3 times 1 min each with water
- \*Impregnate with 5% glycerol

Note: 100% TCA is 100 g of TCA brought up to a final volume of 100 ml with water.

Note: Use Acid Violet 17 (Aldrich# 210579) Now available as tablets from Serva; see <http://www.serva.de/products/latest/35075.shtml>. The distributor in the U. S. is Invitrogen.