

Radioactive Probe Incorporation Assay

Solutions

5% TCA (from 100% liquid) on ice

100% ETOH on ice

Denature DNA 100 ug/ml

- 1] 1 ul sample + 100 ul (1 ul DNA + 99 ul 5%TCA)
- 2] Add 0.5 ml 5% TCA
- 3] Wet Whatman Glass Filter (GF-A) dd H₂O and 5% TCA with 1 ml each
- 4] Vacuum filter
- 5] Spot sample on membrane and vacuum filter
- 6] Wash 3x with 5 ml of 5% TCA
- 7] Wash 1x with 5 ml 100% ETOH
- 8] Air dry
- 9] Place in scintillation bottle
- 10] Add scintillant

Radioactivity Calculation

Two parameters

Specific activity Ci/mM = radioactivity/mass

Concentration = mCi/ml

Goal = M/L = mass/volume