

Fixing, Drying Gels

Radioactive Gels: ($1\mu\text{Ci} = 10^6$ cpm)

1.) 30 min Fix- 45% Ethanol using 95% stock; 45% dH_2O ; 10%acetic acid; 100ml total volume.

Rinse off fix and rinse 1X with distilled water.

Wipe off water in buckets with paper towel (Enhance weakens after mixed with water); don't touch gel.

2.) 1hour Enhance-

100 ml 0X or 1X used; 200ml 2X used; 400ml 3X used.

use 500ml glass graduated cylinder. Pour Enhance into cylinder in sink. Do quickly.

Rinse cyl. with water.

3.) 30 min in 1% Glycerol: Rinse off Enhance 2X. Store used Enhance in waste bottles. Never throw away! Rinse hands before throwing gloves away or this will make the trash smell.

200ml 1% glycerol in $\text{ddH}_2\text{O} = 1.25\text{g}$ glycerol in weighboat/ 100ml ddH_2O

4.) Dry on gel dryer

Take 2 layers of Whatman paper

1. Backup (there are some used ones. Check for radioactivity)

2. Drying piece

With wet hands, lift gel carefully and place onto top Whatman.

Rinse bucket which contained hot gel with warm water + soap.

Saran wrap over gel. Bubbles are ok. Fold along edges s.t. plastic doesn't stick to gel dryer. Mark with radioactive ink on the corners.

To use Savant gel dryer:

a. Dump waste from pump

b. avoid touching Saran wrap to metal grid

c. Smooth side down

Check to see if gels are dry by looking directly down at them while they are still covered. Never lift cover unless gels really look dry. Or else gel will crack!

After dried:

a. Make sure dried gel doesn't crack.

b. Keep flat.

c. put Saran Wrap in radioactive trash.

Expose on film.

Store in -80°C freezer

2 plexy-glass

4 clips

Label: gel#

date

time

initials