Gel preparation:

YOU ARE WORKING WITH ETIDIUM BROMIDE!

Gels are described in terms of percent.

The percentage of the gel you run depends on a few things:

1. Size fragment
2. Separation quality
3. Cleaning from gel

The percentage measurement is a weight/volume

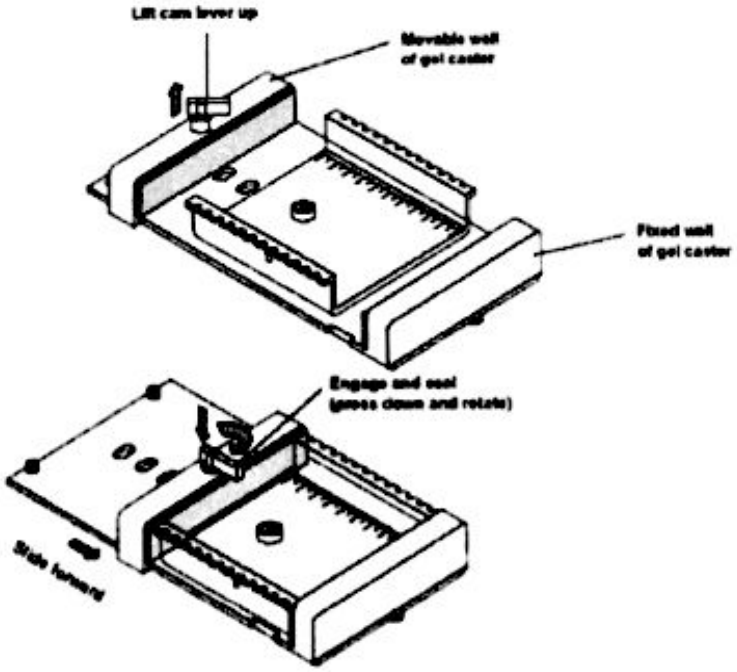
For example, a 1% gel would be 1g agarose in 100mL TAE.

For small gels: 60 ml

For large gels: 100 ml

(Usually you will make 1% gel)

1. Weight right amount of agarose (described above) and add it to a special EtBr Erlenmeyer.
2. Boil in microwave until liquid is clear.
3. Prepare the gel cast as shown in image.



4. Take to chemical hood
5. Add 1-2 drops of EtBr to Erlenmeyer.

6. Pour in to the gel tray (do not forget to put the appropriate comb).
7. Gel will solidified in 15-20min in hood.
8. Put gel (with tray) in the electrophoresis system. Orient the gel from – to + (DNA moves from negative to positive in electrophoresis machine).
9. Load your samples.
10. Set the electrophoresis system (depends on the separation level): Volt80-100, mA- 150, time 20-40 min.

Loading samples:

Add loading buffer to samples (X6)

For PCR check: 5ul from reaction.

For cleaning from gel: whole sample.

Restriction enzyme reaction: whole sample

Do not forget to load the proper ladder.

Image the gel:

Using a UV gel viewer.

Storage:

You can save the gel in 4 degrees warped with saran- write your name, date, and how many wells are left.