Gel Electrophoresis

Material

Agarose

50×TAE buffer

ddH_2O

6x loading buffer

DNA

Ethidium bromidedyeing

Procedure

1. Prepare a 1% weight-to-volume agarose gel(400ml) and store it at 63℃
2. Pour agarose gel into gel tray, assemble gel pouring apparatus by inserting gate into slots
3. Allow agarose to cool, place the gel in the apparatus rig with the wells facing the negative end (black-colored)
4. Fill the rig with 1x TAE buffer
5. Load 2μL of DNA maker into lane
6. Mix 1μL of 6x loading buffer with 2μLDNA sample, load them into lane.
7. Run at 100V for 30 min.
8. Use Ethidium bromidedyeing gel for ten minutes.(EB is dangerous to work with; Gloves must be worn at all times during the whole procedure)
9. Use the Gel imaging system to check the gel.
10. Take a picture
11. Throw away the gel carefully and clean up the table-board.