

Agarose Gel Electrophoresis

AIM: To perform agarose gel electrophoresis.

Materials Required:

- 1X TAE
- Agarose
- Autoclaved MilliQ
- EtBr

Procedure:

- Set up the apparatus before making the gel. Make sure there is no leakage.
- Take a conical flask and add agarose according to the required percentage. For 1% gel, add 1g of agarose in 100ml 1X TAE.
- Heat the solution till it becomes clear. Don't let it boil.
- Once the solution cools down to about 50°C, add 3ul of EtBr. The solution would be lightly tinted.
- Pour the solution onto the tray. Let it set for 20-30 mins.
- Prepare your samples.
- Once the gel is settled, transfer the casting tray along with the gel into the box.
- Add the running buffer(1X TAE) till the wells are properly submerged.
- Load your samples.
- Make the appropriate negative and positive connections, set up the time and volt, and run the gel.
- Visualise and analyse the gel when the run is complete.