

Agarose Gel Electrophoresis

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Abstract

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Protocol

Step 1.

Dissolve 1.5 Weight Percent Agarose Gel in Erlenmeyer Flask.

- 0.75 g Agarose
- 50 ml 1x TAE Buffer

Step 2.

Place Erlenmeyer Flask in the microwave with a paper towel clogging the head.

Step 3.

Microwave on high, keeping an eye on the liquid.

- Once the liquid boils, stop the machine and mix the liquid.
- Repeat until all particulates in the liquid have dissolved.

Step 4.

Once the Erlenmeyer Flask is cool to touch, add 2 μ L EtBr to liquid and disperse.

Step 5.

Place the gel comb into the gel mold and seal the open ends of the mold.

Step 6.

Pour the molten gel into the mold and allow to cool, minding for bubbles.

Step 7.

Once the gel has solidified, remove the comb and submerge the gel into the electrophoresis apparatus.

Step 8.

Run the gel at 100mV until the colored front has traveled 75% down the gel (30 min).

Step 9.

Image the gel and dispose of in EtBr waste.