Oct 18, 2020

Agarose Gel Electrophoresis

DOI
dx.doi.org/10.17504/protocols.io.bhvpj65n

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Protocol Citation: Jiaxin Li 2020. Agarose Gel Electrophoresis. **protocols.io** **https://dx.doi.org/10.17504/protocols.io.bhvpj65n**

Protocol status: Working
We use this protocol and it's working

Created: June 24, 2020

Last Modified: October 18, 2020

Protocol Integer ID: 38543

Mix

1 Preparation of TAE

Preparation method:
1. Concentration: 50x to 1x
2. Preparation:
A) 100ml 50x mother liquor to beaker, Gatrochen water to 500ml
B) Open a new tank of 4.5L Watson's water, pour the above liquid into 5L liquid

2 Prepare 1% agarose (Commonly used for 200 bp-5 Kb of DNA) :

	agarose/g	TAE/ml	dyestuff/ul	hole count
	0.8	80	2	50
	0.4	40	1	25
	0.2	20	0.5	11

Process

3 Melt agarose in 1X TAE buffer in microwave oven until the liquid is fully transparent.

4 Add EB (Ethidium bromide) in the melted agarose.

5 Pour the melted agarose in the gel cast with the comb set.

6 Wait 25 minutes until the gel solidifies.

7 Cover the gel with 1X TAE buffer and remove the combs carefully.

8 Load the samples in the wells:
3 µl of 1 kb DNA ladder
Mix 3 µl of DNA with 1 µl loading buffer

9 Run the gel at 120 volts for 25 minutes without letting the bands run out of the gel.

10 Remove the gel from the chamber.

11 Visualize the DNA fragments.