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Agarose Gel Electrophoresis

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We use this protocol and it's
working

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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 μ l of 1 kb DNA ladder
Mix 3 μ l of DNA with 1 μ l 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.