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05 Agarose Gel Electrophoresis

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Protocol status: Working

We use this protocol and it's working

Created: July 07, 2019



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Keywords: agarose gel electrophoresi, gel electrophoresi, electrophoresi, agarose, gel

Guidelines

[M] 0 Mass Percent

Materials

MATERIALS

⊗ TAE (Tris-Acetate-EDTA) buffer, 1x

⊗ DNA samples **Catalog #/**

⊗ 1% Agarose gel **Catalog #/**

⊗ 10×green loading buffer **Catalog #/**

Troubleshooting



- 1 Use 1×TAE buffer to prepare 1% Agarose mix in a flask, then put it in the microwave and heat it as long as it takes to completely dissolve the Agarose.
- 2 Take out the conical flask, cool it in the wash basin to about 50°C. Add EB quickly, and then mix well. Pour the Agarose gel into gel tray and insert comb into slots. Let the gel solidify for 15–20 min. Meanwhile, dilute the 10× green buffer to 1× and add to the DNA samples.

 50 °C

 00:15:00 ~  00:20:00

- 3 Place the gel onto the electrophoresis apparatus ensuring that it is totally submerged in 1×TAE buffer. Carefully load each sample into its designated lane and 2 µl DNA marker into a separate lane.

 2 µL

- 4 Run at 120V for 20–25 min. If the sample have not completely separated, the time may be extended appropriately.

 00:15:00 ~  00:20:00

- 5 Check the gel using a gel imager or under UV light, then take a photo on Norma.