Jul 07, 2019

05 Agarose Gel Electrophoresis

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Working

dx.doi.org/10.17504/protocols.io.48rgzv6

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GUIDELINES

[M]0 Mass Percent

MATERIALS

NAME	CATALOG #	VENDOR
TAE (Tris-Acetate-EDTA) buffer, 1x		
DNA samples	/	
1% Agarose gel	/	
10×green loading buffer	/	

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 15-20min. Meanwhile, dilute the 10x green buffer to 1x 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 1xTAE buffer. Carefully load each sample into its designated lane and 2ul 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 oNorma.