Jul 07, 2019

05 Agarose Gel Electrophoresis

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

Tjusls China[1]

[1]Tianjin University

Tjusls China
Tianjin University

DOI: https://dx.doi.org/10.17504/protocols.io.48rgzv6

Protocol Citation: Tjusls China 2019. 05 Agarose Gel Electrophoresis. **protocols.io** https://dx.doi.org/10.17504/protocols.io.48rgzv6

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

Created: July 07, 2019

Last Modified: July 07, 2019

Protocol Integer ID: 25585

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 15-20min. 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.