Gel electrophoresis

Materials

- 0.7 %, 1 % or 1.5 % agarose
- 1x TAE buffer
- CyberSafe
- 6x loading dye

Method

1. Take a plastic gel box (one that has two sides open and two sides closed) and a comb (choose the amount of wells preferred). If you are going to purify from the gel, wash the box and comb with demi water before use.
2. Put tape on the open sides of the gel box and make sure it is secure.
3. Put on one glove and put 5 µl CyberSafe in the gel box. Make sure to use a 20 µl pipette instead of a 10 µl one, so only the tip touches the carcinogen material.
4. Add 0.7 %, 1 % or 1.5 % agarose to the box and mix, so the CyberSafe is spread through the agarose. The percentage agarose depends on the size of the expected bands.
5. Let the gel dry.
6. Put the gel in an electrophoresis container with 1 x TAE buffer. Make sure the TAE liquid level is just a little above the top of the gel.
7. Add 6 x loading dye to the samples and load the gel. 10 µl for a check, Make sure the wells of the gel are on the side of the black electrode.
8. Run at 100 V for 40 minutes or 90 V for 60 minutes. When purification is the next step, use 90 V instead of 100 V.

Note

In this protocol it is really important to use gloves when working with CyberSafe.