Elchrom Scientific
Excellence in Electrophoresis

Elchrom Scientific

Protocol No. 6*

Short technical protocol for HLA Ready-to-Use Gel EtBr

1. Dilute 50ml of 40xTAE stock solution (P/N 3031) by adding 1.95 liters of double-distilled water (ddH_2O).

2. Fill up the ORIGINS by Elchrom™ (P/N 2100) to the mark indicated (see according technical manual) with the previously prepared buffer.

3. Turn on the ORIGINS by Elchrom™ and set the temperature to 20 °C.

4. Set the voltage to 200V (=16.7V/cm).

5. The pump delay is set to 1.5 minutes.

6. Set running time to 7 minutes (may be adjusted depending on required resolution).

7. Remove aluminium bag by cutting one short side with scissors and take out the inside plastic bag containing the gel. Handle gels with care to avoid physical damage!

8. Caution: the gel is immersed in a solution containing EtBr. Cut the plastic bag on three sides and carefully remove the gel by gripping the backing with forceps (P/N 2366).

9. Switch off the pump of the ORIGINS by Elchrom™.

10. Place the gel in the buffer compartment of the ORIGINS by Elchrom™. Position and fix it properly with the appropriate catamaran (P/N 8810, P/N 8820).

11. Load size marker wells first; detection limit: 7 ng of DNA per band (50 bp).

12. Load samples according to your standard protocol. The maximum sample loading volume is 39 µl; maximum marker loading volume is 28 µl.

13. Start electrophoresis. At 200 V, the current should be at 600 to 700 mA.

14. After the run, take out the gel and place it up-side-down (plastic backing resting on top of the gel) on the UV-transilluminator for visualisation.

*) All indications on voltage, running time and temperature are only relevant if the gel is run in a ORIGINS by Elchrom™. If HLA Ready-to-Use Gels are run in regular electrophoresis tanks it is recommended to use a unit that takes at least 600 ml of running buffer. However, best results are achieved when using the combination and benefits of both, HLA Ready-to-Use Gels and ORIGINS by Elchrom™.

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