

## *Running ready-to-use gels in regular electrophoresis apparatus*

1. *Prepare 30 mM TAE buffer \*(Fig. 1)*
2. *Fill the apparatus with 30 mM TAE buffer*
3. *Prepare the samples with Elchrom loading buffer*
4. *When samples are ready, place the gel in the buffer \*(Fig. 2) and fix it with the catamaran \*(Fig. 3). Sample wells should be parallel to the electrode wire. Running buffer should be 4-5 mm above the surface of the gel \*(Fig. 4)*
5. *Load the samples quickly and close the lid*
6. *Start Power Supply*
7. *When electrophoresis is completed, take the gel out using the forceps \*(Fig.5)*
8. *Place the gel on the Peel-IT™, and detach it from the plastic backing with nylon string for faster staining or blotting \*(Fig. 6)*
9. *Stain the gel in the Easy Staining tray on the shaker \*(Fig. 7)*

1. Dilute 50 ml of 40xTAE stock solution (Fig. 1) to 2 l with ddH<sub>2</sub>O.
2. It is recommended to mark the level on the front side of the tank.
3. 1ml of 5x conc. Loading buffer is provided in every gel box. It should be diluted with the sample 4 to 5 times.
4. Cut the alu bag on one side. Take out the plastic bag with the gel, and cut the plastic bag on 3 sides. Peel the plastic off. Grip the gel with the forceps at the plastic backing (Fig. 2). Place the gel in the electrophoresis apparatus and fix it with catamaran frame (Fig. 3, 4). Rinse the sample wells with pipetor if air bubbles are left.
5. For loading Wide Mini gels, a Multichannel pipetor is recommended.
6. Recommended voltage is 10 V / cm (cm = Distance between the electrodes). Amperage is always set to 2 A (maximum). Time is calculated with EL Quant programe: [www.elchrom.com](http://www.elchrom.com)
7. A needle can be of help to pull up the gel (Fig. 5).
8. Nylon string is provided in every gel box. Instead of Peel-IT™ (Fig. 6), a 1 or 2 l glass bottle can be used.
9. It is recommended to cover the staining tray (Fig. 7) to protect the gel from light during staining (15 - 40 min) and destaining (optional).

40x CONC. TAE BUFFER: (P / N 3031)

Components	Amount for 1 liter
Tris (hydroxymethyl) aminomethane	145.37 g
Na <sub>2</sub> EDTA · 2 H <sub>2</sub> O	11.16 g
Acetic Acid (glacial)	34.4 ml

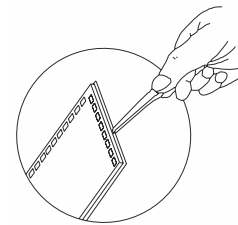


Fig. 1

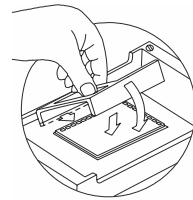


Fig. 2

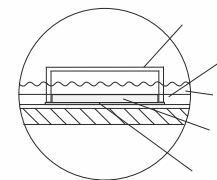


Fig. 3

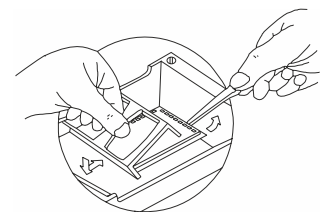


Fig. 4

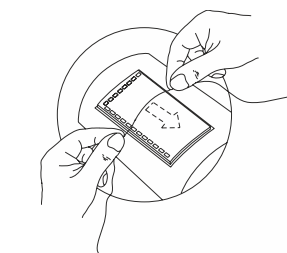


Fig. 5

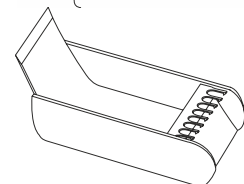


Fig. 6

Fig. 7