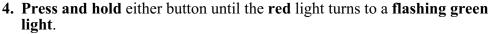
Using the Invitrogen E-Gel PowerBase v.4

Pre-Run

- 1. Plug the PowerBase into an electrical outlet
- 2. Open the gel package.
- 3. Insert the gel (with the comb in place) into the apparatus right edge first. Press firmly at the top and bottom to seat the gel in the base.

A **steady**, **red light** will illuminate when the E-Gel gel is correctly inserted (Ready mode)



This indicates that the 2-minute pre-run has started.

At the end of the pre-run, current will automatically shut off. The **flashing green** light will change to a **flashing red** light and the PowerBase will **beep rapidly**.

5. Press and release either button to stop the beeping. The light will change from a **flashing red** light to a **steady red** light.

Loading

All well in the gel must contain sample or water.

Avoid introducing bubbles while loading. Bubbles will cause bands to distort.

1. Remove the comb from the E-Gel gel using both hands to lift the comb gently by rolling the comb slowly towards you.

Be careful to pull the comb straight up from both sides. Do not bend the comb.

- 2. Remove any excess fluid from the wells using a pipette.
- 3. Load samples in 20 µl volume in the wells.
- 4. Load 20 µl of water into any remaining empty wells.
- 5. Load 100-250 ng of molecular weight markers.

Electrophoresis

Use the 30 min. run for a gel with one set of wells. Use the 15 min. run for a gel with two sets of wells.

1. Press and release the correct run time button.

For the 30 min. run time the light will change to a **steady green** light.

For the 15 min. run time the light will change to a **steady blue** light.

Current through the E-Gel automatically shuts off at the end of each run.

The E-Gel PowerBase v.4 signals the end of the run with a **flashing red** light and a **rapid beeping**.

- 2. Press and release either button to stop the beeping. The light will turn to a **steady red** light.
- 3. Remove the gel cassette from the power unit and analyze your results using a UV transilluminator.





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