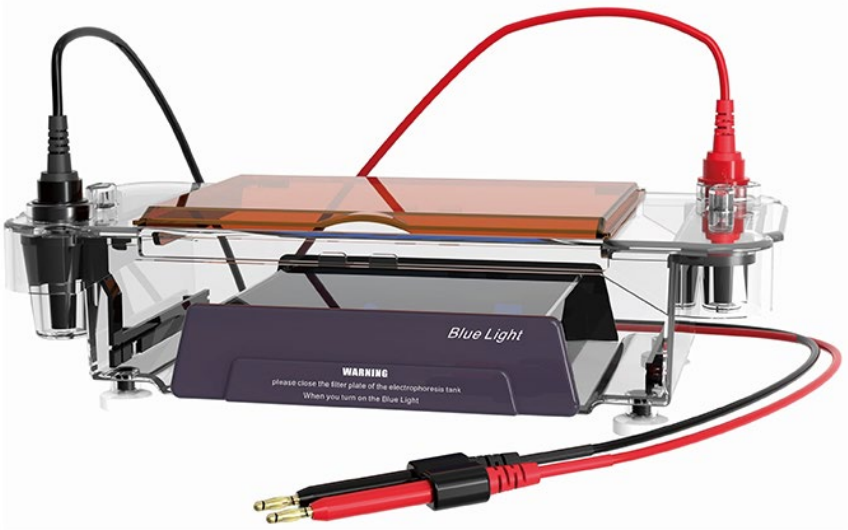
horizontal electrophoresis cell with blue light illuminator

This horizontal electrophoresis cell is equipped with an integrated real-time blue light monitoring device, which allows real-time observation of the electrophoretic bands during the electrophoresis process to ensure the accuracy of the experiment.

This horizontal electrophoresis cell has a flip-top anti-blue light top cover, which can effectively filter out harmful blue light to protect the safety of experimental personnel, and is mainly used for separating DNA, RNA, proteins and other biomolecules. The horizontal electrophoresis cell is also equipped with highly efficient sample processing capability, which can electrophorese 200 samples at the same time, and is widely used for large-scale experiments and high-throughput screening.



Main Features of Horizontal Electrophoresis Cell

1. real-time blue light monitoring device: equipped with an integrated real-time blue light monitoring device, it can observe the electrophoresis results in real time during the electrophoresis process, ensure the accuracy of sample separation, and facilitate the experimenters to adjust the experimental conditions in time.

2. Anti-blu-ray design: Flip-up anti-blue light upper cover effectively filters out blue light, ensuring that the experimental process will not be affected by blue light, providing a clear view of electrophoresis strips and protecting the eyes from blue light exposure.
3. Intelligent power-off function: The blue light lamp is equipped with a 5-minute automatic power-off function, which prevents over-lighting and effectively extends the service life of the blue light beads at the same time.
4. heat dissipation function: the upper cover can be opened for heat dissipation, suitable for long time electrophoresis experiments, to help the equipment to maintain a stable working temperature, to avoid overheating.
5. large-capacity sample processing: 200 samples can be electrophoresed in a single session, which greatly improves the throughput of the experiment and is suitable for laboratories that need to process a large number of samples at the same time.
6. movable electrode design: movable electrode design is convenient for electrode maintenance and replacement, which saves the time and energy for maintenance during the experiment.
7. Horizontal Adjustment Knob: There is a horizontal adjustment knob at the bottom, so that users can adjust the horizontal state of electrophoresis tank according to their needs to ensure the uniform electric field during the experiment and improve the separation effect.
8. Specialized gel maker: Equipped with special gel maker, it can prepare gel quickly and conveniently, which simplifies the experimental process and improves the experimental efficiency.

Working Principle

Horizontal electrophoresis cell drives the migration of charged molecules in the gel by electric field, and separates the molecules by utilizing their different migration speeds in the electric field. A gel is placed inside the electrophoresis tank and the sample is loaded into the gel through the sample tank. Electrodes connected to a power source generate an electric field that separates molecules in the sample according to differences in molecular size, charge, or morphology. During this process, the electrophoresis process is observed in the electrophoresis tank by blue light irradiation to monitor the separation of the sample in real time. As the electrophoresis progresses, the samples gradually separate and form bands. The real-time blue light monitoring device of the equipment can help the experimenter to check the status of the electrophoresis bands at any time to ensure the smooth progress of the experiment. At the same time, the flip cover design and automatic power-off function ensure the safety of experimental personnel.

Model	**EH10**
Gel size	130x150mm, 130x200mm
Sample throughput	14-well, 18-well, and 26-well combs
Blue light wavelength	470nm
Buffer volume	800mL

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