

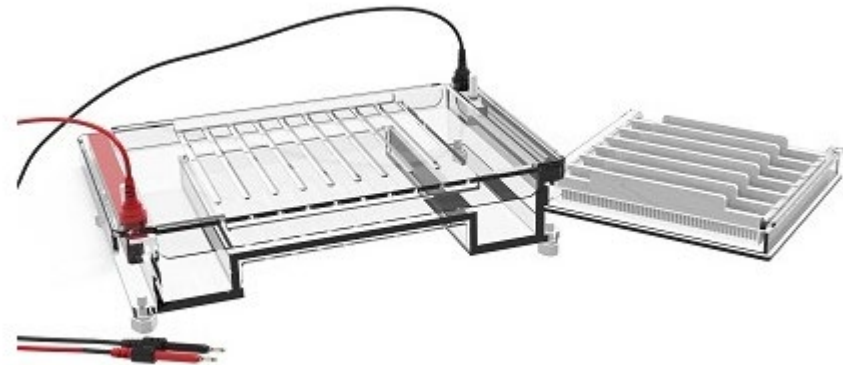
high throughput horizontal electrophoresis cell for agarose

The high throughput horizontal electrophoresis cell is designed for large-scale molecular biology experiments, which can electrophoresis 360 samples at the same time, and is used for isolation, identification and molecular weight determination of DNA and RNA molecules.

High throughput horizontal electrophoresis cell with high throughput, high efficiency and excellent electrophoretic separation performance, suitable for large-scale experimental needs in genomics, transgenic detection, genetics research and other fields.

Features of High Throughput Horizontal Electrophoresis Cell

1. high-throughput design: 360 samples can be electrophoresed at one time, which greatly improves the efficiency of experiments and is suitable for high-throughput experimental environments where a large number of samples need to be analyzed at the same time.
2. Top cover opening design: The top cover of the electrophoresis tank is designed with a porous heat dissipation function to ensure that the internal temperature of the equipment is appropriate during a long period of electrophoresis, which effectively prevents the electrophoresis results or equipment life from being affected by the high temperature.



3. Bottom level adjusting knob: The bottom of electrophoresis tank is equipped with a level adjusting knob, which is convenient to adjust the level of the tank to ensure the uniform electric field during electrophoresis, thus guaranteeing the accuracy of the experimental results.
4. Specialized gel-making tank: The provision of a special gel-making tank simplifies the gel-making process, enabling the experimenters to prepare agarose gel more efficiently and save the experiment time.
5. High-purity platinum electrode: 99.99% high-purity platinum electrode wire is used, which not only provides good conductivity, but also improves the corrosion resistance of the electrode, prolongs the service life of the equipment, and ensures the stability of the current in the electrophoresis process.

Advantages of High Throughput Horizontal Electrophoresis Cell

1. Efficient processing of large-scale samples: The high throughput processing capacity of up to 360 samples makes this electrophoresis tank very suitable for large-scale screening and analyzing tasks, which is a great advantage in the fields of genomics and biopharmaceuticals.
2. Precise electrophoretic separation effect: The horizontal adjustment knob at the bottom ensures the level of the tank, which makes the electric field more uniform during electrophoresis and the separation effect more accurate.
3. high purity platinum electrode: the use of 99.99% high purity platinum electrode wire improves the conductivity and corrosion resistance, making the electrophoresis effect of the electrophoresis tank more stable and reducing the risk of electrode aging.

4. easy to operate and maintain: the openings in the upper cover are designed to facilitate heat dissipation and observation of the experimental process, the special glue-making tank simplifies the operation process, and the high corrosion resistance of the electrode wire greatly reduces the maintenance frequency.
5. save space and time: through high throughput electrophoresis and optimized design, it saves experimental space and time, suitable for laboratories that need to analyze a large number of samples.

Working Principle

High throughput horizontal electrophoresis cell utilizes an electric field to separate charged molecules, mainly by applying a constant voltage to an agarose gel, so that the DNA or RNA molecules in the sample are separated in the gel according to their size, shape and charge differences. Larger molecules move more slowly due to high resistance to migration, while smaller molecules migrate quickly, resulting in clear electrophoretic bands. Each sample is separated by an electric field, and the results of the separation are observed by means of visualization (e.g., dye staining) upon completion. The electrophoresis tank supports 360 samples simultaneously, which makes it possible to process a large number of samples at the same time, making it suitable for large-scale analysis.

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Model	EH40
Gel size	245x250mm
Sample throughput	26 or 52 samples, compatible with multichannel pipette
Buffer volume	1700mL