

Short user's manual

VWR® Real-Time Electrophoresis Tank System

(EU Catalog No.: 700-1472)

This product is for research use only

Warnings

Symbols and Conventions

	CAUTION This symbol indicates a potential risk and alerts you to proceed with caution
	CAUTION This symbol indicates the presence of high voltage and warns the user to proceed with caution



This product can deliver potentially lethal voltage when connected to a high-powered power supply and should be operated only by qualified and trained personnel.



Use only appropriate power supplies that are designed for electrophoresis applications and have safety features such as no load and overload detection.



When operating, do not move or bump the system, do not put your finger or any other objects into the migration tank when connected to a running power supply.



The blue light transilluminator produces a high intensity light, and users should not stare directly at the light.



Do not detach the power supply cords from the safety lid and do not remove the safety lid when the attached power supply is running. Attempting to do so can cause damage and can also create a shock hazard.



Please carefully read this instruction manual before operation to avoid any personal injury. Only trained laboratory personnel should operate the system.



Do not attempt to open or repair any parts of the system. Contact your distributor or Benchmark Scientific for service.

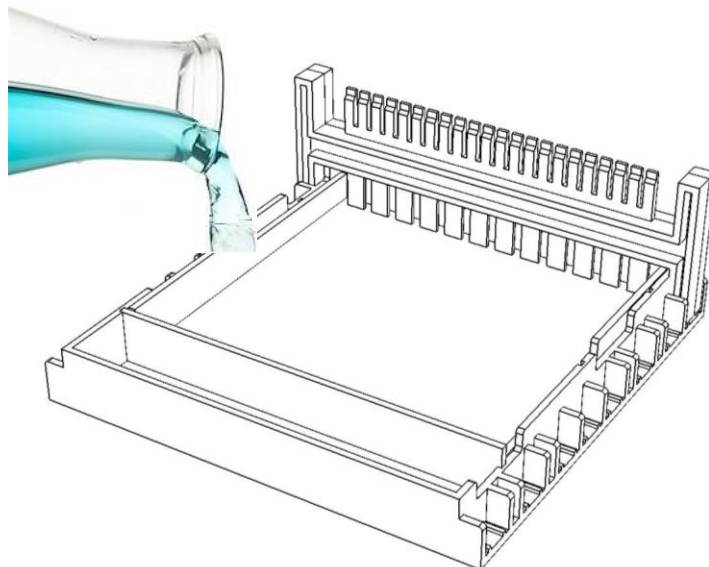


Always use the system in an environment with low humidity and low dust, also keep away from water, direct sunlight / strong light, corrosive gas, high magnetic fields, heaters, fires and other heat sources.

Gel Preparation



Note: After mixing and heating agarose solution, let it cool to approximately 60° C before pouring into the gel trays

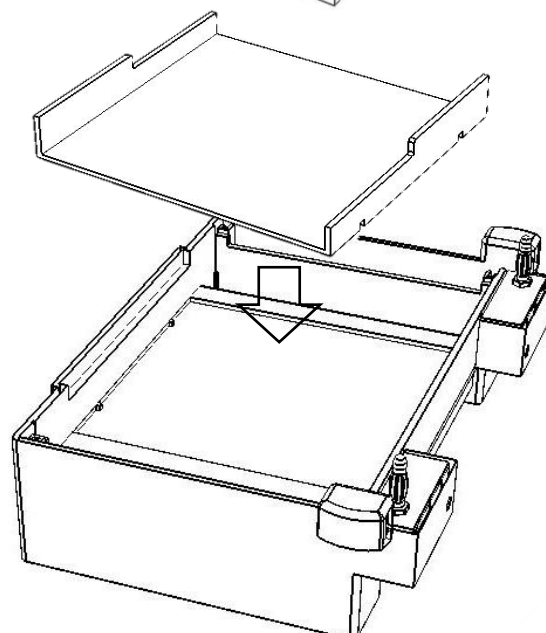


Pour the agarose gel/DNA stain solution into the gel tray to make a gel approximately 4mm thick. Each 6x10.5cm tray requires about 25ml of agarose.

Note: VWR's EZ Vision Products are recommended for gel stain.

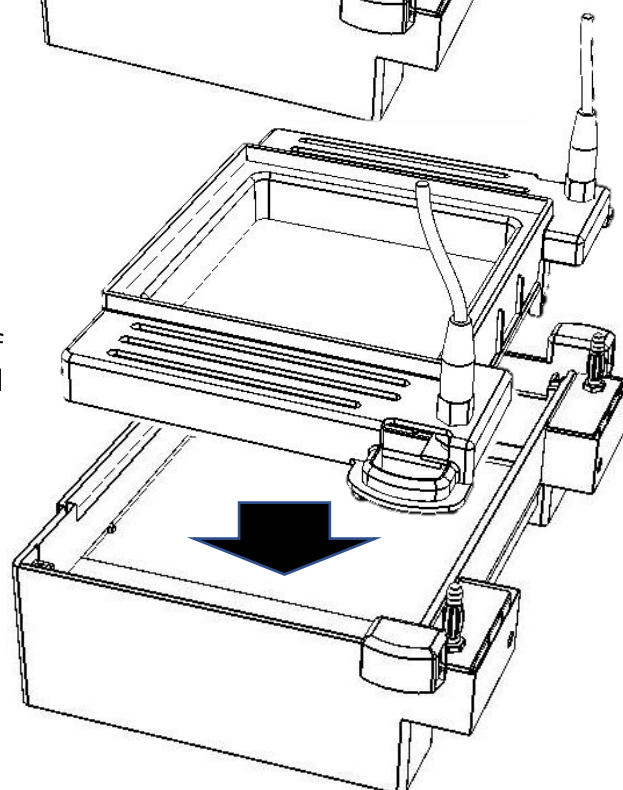
Prepare for electrophoresis

Place a prepared gel, together with the gel tray onto the gel bed inside the gel tank.

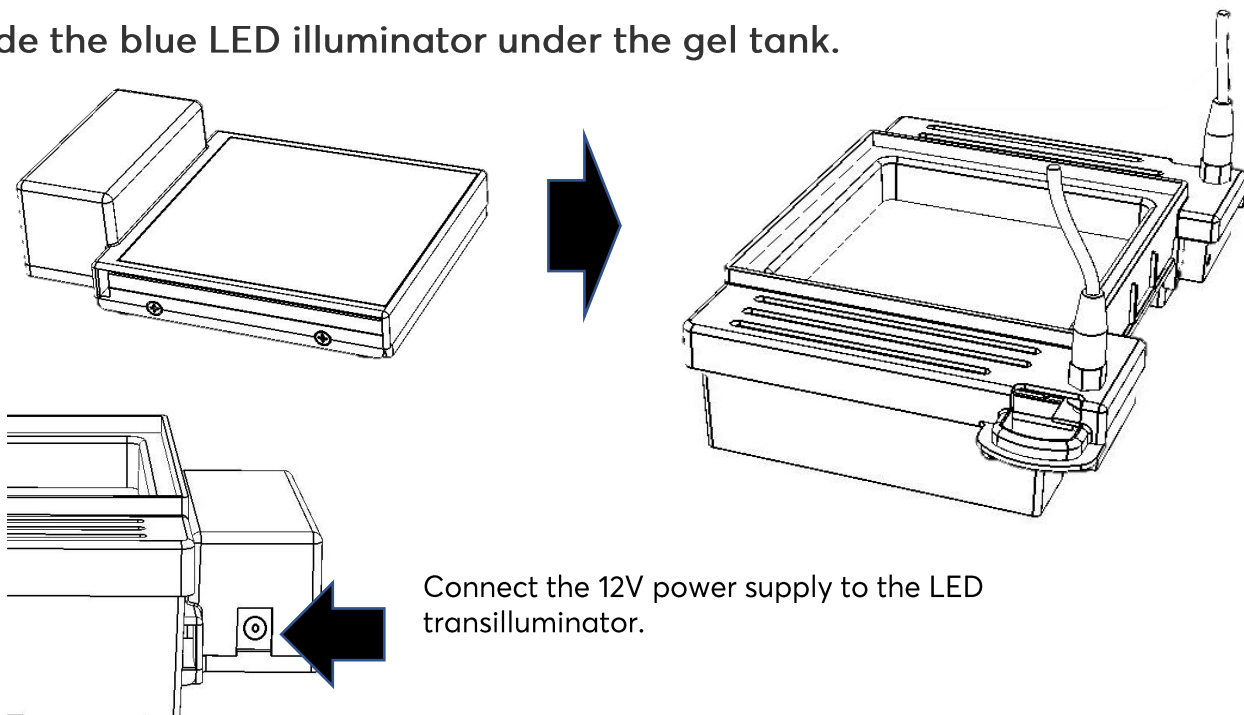


Add running buffer to cover the gel.
Pipette DNA samples into the gel wells.

Carefully lower the safety cover onto the gel tank, connecting the power input leads to the tank connectors. The orange viewing filter should fully contact the surface of the buffer so there are no bubbles visible. If the buffer level is too low, remove the cover, and add more buffer to the tank.



Slide the blue LED illuminator under the gel tank.



Connect the positive (red) and negative (black) power leads from the safety cover to the + and – outputs of an appropriate electrophoresis power supply.

Set the voltage appropriately on the power supply and turn on power to apply voltage.

To visualize the DNA separation in the gel during electrophoresis, turn on the blue LED illuminator using the ON/OFF switch.

Imaging with a smart phone

To take a picture of the gel using a smart phone camera, fit the imaging enclosure onto the lid of the gel running tank.

Insert the included orange photo filter into the top platform of the enclosure.

Turn on the smart phone's camera application and align the camera lens with the photo filter.

For complete operating instructions, please refer to the full product user manual.

