

Nucleic Acid Sequencing Electrophoresis Cell

Cat. No. BT209, BT210 & BT211

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Before using the instrument, please read the operation instruction handbook carefully.

WARRANTY

Our company guarantees that this unit is warranted against defective material and workmanship for a period of one year from the date of shipment. We will repair or replace the defective equipment returned during the warranty period free if the equipment has been used under normal laboratory conditions and in accordance with the instruction in this manual. The following defects are specifically excluded:

1. Damage caused by accident, misuse, or abuse
2. Damage caused by disaster
3. Repair or modification by anyone else without our authorization
4. Corrosion due to the use of improper solvent or sample
5. Defects caused by improper operation
6. Use of fittings or other spare parts supplied by anyone else.

This warranty does not apply to platinum wire and all the accessories.

A return authorization must be obtained from us before returning any product for repair on a freight prepaid basis.

For any inquiry or request for repair service, please contact BT Lab Systems via the email below.

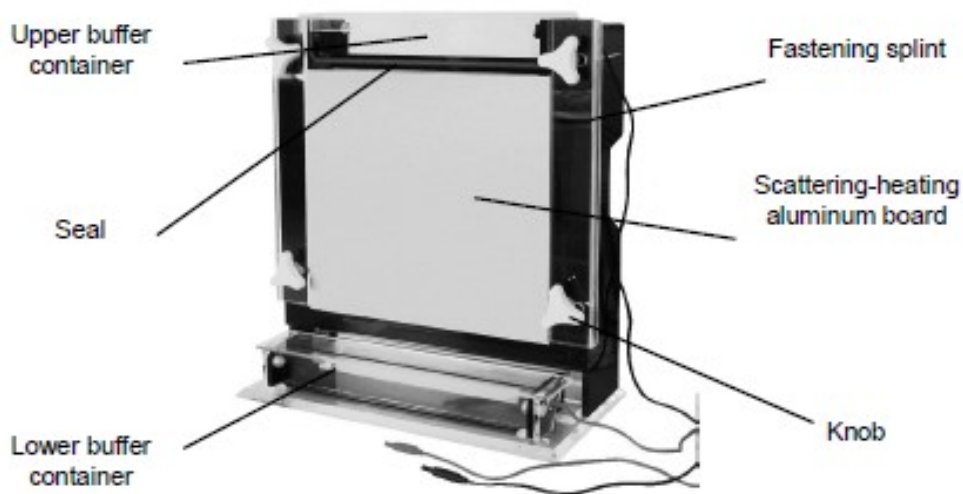
E-Mail: info@BTLabSystems.com

INTRODUCTION

BT Lab Systems Nucleic Acid Sequencing Electrophoresis Cell Units can be used for AELP, Tolerance Show, SSR, SSCP, HA, DNA Foot printing, RNase, S1 Nucleic Acid Graphs, and Primer Extension Analysis.

FEATURES

- Simple operation, uses only 4 fastening knobs
- Save ~50% buffer compared to conventional devices
- Aluminum plate for improved heat dissipation
- Auto off when lid removed
- Optimum sharkstooth comb for easy load of sample



UNIT COMPONENTS

Each unit contains the following components

Accessory	Quantity
Body Tank (includes electrodes)	1
Concave Plate	2
Rectangular Plate	2
Spacer	4
Comb (0.4mm, 50 wells)	2
Comb (0.4mm, 62 wells)	4
Comb (0.4mm, 74 wells)	16
Comb (0.4mm, 100 wells)	3
Clamps	8
Glue Bottle	1
Seal	1
Water Pipe	1
Electrical Cables	1

SPECIFICATIONS

Cat. #	BT209	BT210	BT211
Gel Size (W x L) (mm)	180 x 420	330 x 420	330 x 320
Gel Thickness (mm)	0.4	0.4	0.4
Sample Volume	33/40	56/62/74/100	56/62/74/100
Buffer Requirement (mL)	~500	~750	~750

OPERATING INSTRUCTIONS

1. Clean the accessories and glass plates

Wear gloves and clean every accessory including the glass, spacers, and comb.

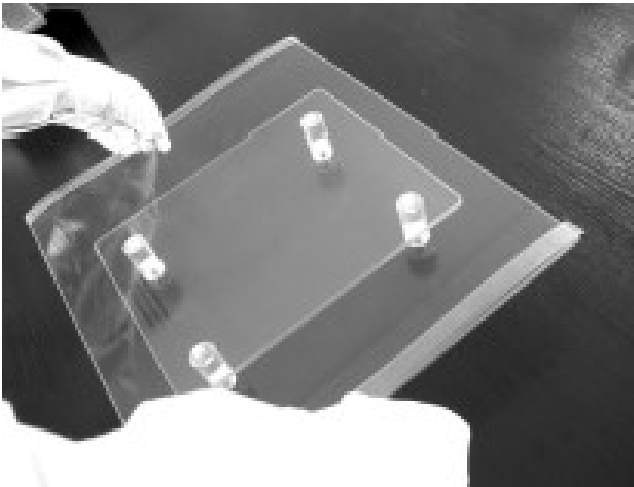
Start by cleaning the inner glass plates with alcohol.

Next, in a clockwise motion, clean the rectangular and concave plates with hydrophilic silane.

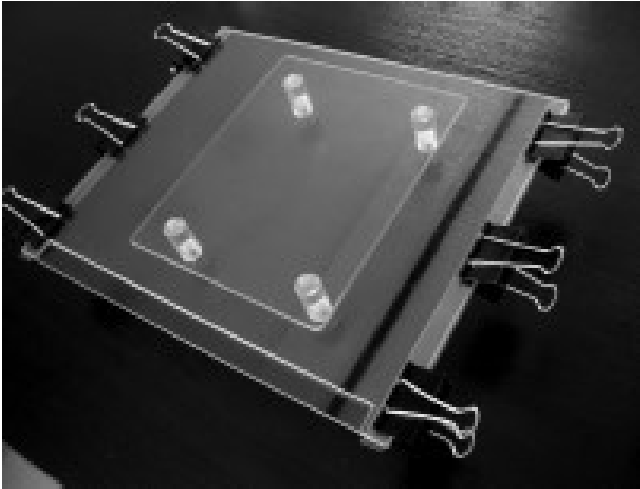


2. Align the rectangular plate onto the platform

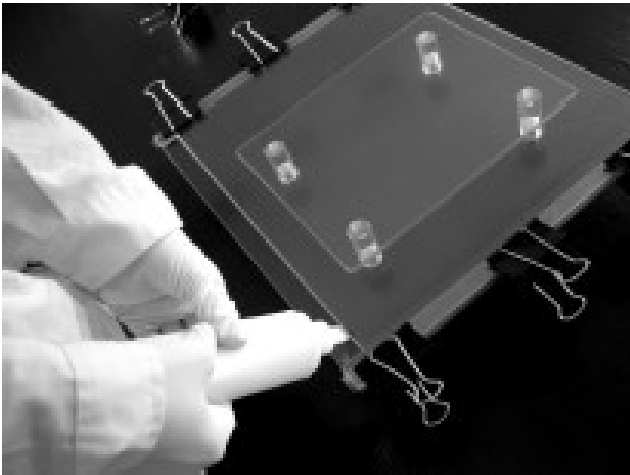
3. Place the spacers on both sides of the rectangular plate.



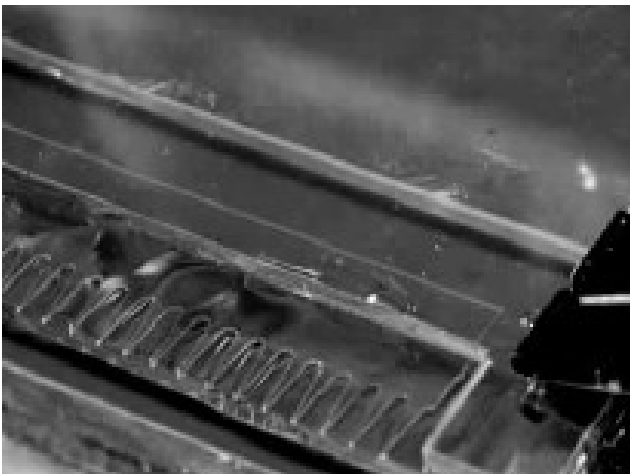
4. Place the concave plate on top of the rectangular plate, then carefully clamp around the edge of the glass plates



5. Infuse the gel into the cavity until the space between the gel and underside of the concave glass plate is 2-3 cm. Make sure there are no bubbles.



6. Carefully insert the flat side of the comb in the gel, using the hole located on the comb as indication of depth.



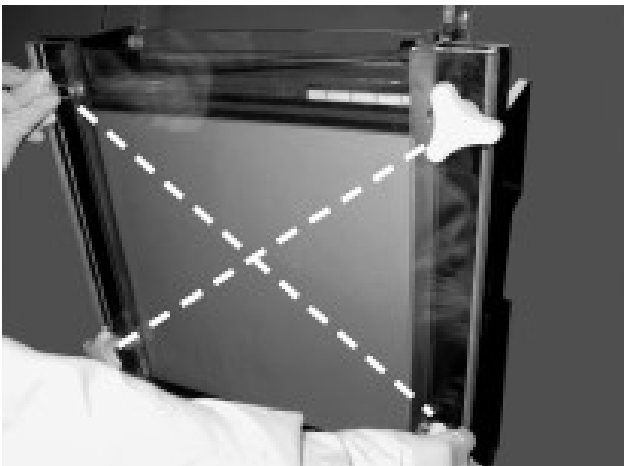
7. After the gel solidifies, carefully remove the comb and the clamp, then clean the comb.



8. Put the glass plates against the body tank, then put the sideboard pressure on the glass plate



9. Fasten the four knobs in accordance with the direction



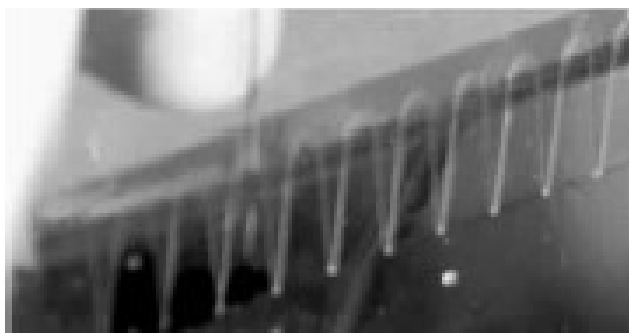
10. Add the electrophoresis buffer into the upper and lower buffer containers. The upper buffer should be higher than the underside of the concave glass plate by 10mm.



11. Connect the power supply and set the value of constant power at 70~80W for preparatory electrophoresis.
12. After the pre-electrophoresis is complete, carefully insert the comb. The appropriate insertion depth of the comb is the cutting-edge of the tooth into the gel by 1mm.



13. Using a pipette, softly load the sample solution into the well.



14. Connect to the electrophoresis power supply and select the optimum voltage.

15. After the electrophoresis,

- a. Immediately turn off the power supply
- b. Unplug the wire electrode
- c. Carefully pour the electrophoresis buffer
- d. Release fastening knobs
- e. Remove the glass plates

NOTICE

- Do not tighten the slabs too tight. Ensuring the slabs touch aluminum board completely is enough.
- Do not make any modifications or changes to the seal of the electrophoresis to prevent buffer leakage.
- Latex Gloves are a necessity during gel preparation for the nerve toxin of PA.
- Clean the gel preparation system after experiments, especially the aluminum board. Otherwise, the dirt on it will reduce the cooling effect.
- Do not turn the bolt on the back of the electrophoresis tank as this will affect the calibration, which has been done prior to shipment
- The system is fragile. Handle with care when moved.

TECHNICAL SUPPORT

BT Lab Systems offers technical support for all of its products. If you have any questions about the product's use or, operation, please contact BT Lab Systems at the following info.

E-Mail: info@BTLabSystems.com