

**EP**  
Electrophoresis  
System

**EPS**  
Power Supply

Best choice for safe and accurate electrophoresis

# Lab Companion Electrophoresis System & Power Supply

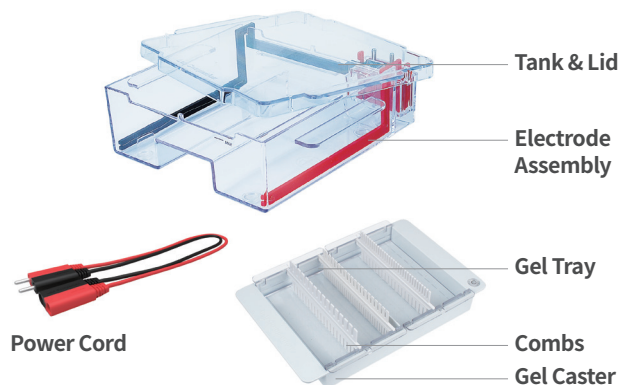
# Electrophoresis System



## Clean maintenance and easy-to-use structure

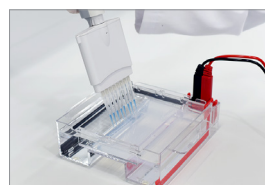
### Structural Functional Features

- Horizontal electrophoresis system.
- Integral structure of transparent polycarbonate material ensures excellent durability and convenient sample checking.
- Marking of ⊕/⊖ and direction on the bottom of the tank makes it very convenient to use for checking the direction of electrophoresis.
- The comb (31, 16 well) has set intervals, making it suitable to use for multi-channel pipets. Comb 12ea as standard. (EP-10, EP-18)



### Use Convenience Features

- The gel tray is UV-transparent, and no need of separation for the Agarose Gel from the tray to check the results. (UV-A)
- Level marker is engraved on the gel tray to make it easy to obtain gel of constant thickness.
- Bubble level is included in gel caster in order to check horizontal level. (except for EP-05 model)
- Power cords being connected/disconnected easily are divided into cathode/anode by black/red. Large quantities of samples can be loaded at once. (based on EP-18, total 198EA (including marker))



Comb interval for multi-channel pipet



Level marker



Bubble level



Anti-slip rubber feet

## Product composition

Model	EP-05	EP-10	EP-18
<b>Electrophoresis Unit (Tank &amp; Lid, Electrode, Power Cord)</b>	1 set	1 set	1 set
<b>Gel Caster</b>	1 ea	1 ea	1 ea
<b>Gel Tray</b>	3 ea	2 ea	1 ea
<b>Comb</b>	27/40 well (1.0 mm) x 1ea	20/31 well (1.0 mm) x 2ea 20/31 well (1.5 mm) x 2ea 16/20 well (1.0 mm) x 2ea 16/20 well (1.5 mm) x 2ea 25/34 well (1.0 mm) x 2ea 25/34 well (1.5 mm) x 2ea	20/31 well (1.0 mm) x 2ea 20/31 well (1.5 mm) x 2ea 16/20 well (1.0 mm) x 2ea 16/20 well (1.5 mm) x 2ea 25/34 well (1.0 mm) x 2ea 25/34 well (1.5 mm) x 2ea

## Specification

Model	EP-05	EP-10	EP-18	
<b>Buffer capacity (L / cu ft)</b>	0.5 / 0.017	1 / 0.035	1.8 / 0.063	
<b>Material</b>	Electrophoresis tank, Lid	PC (Polycarbonate)		
	Electrodes	Platinum wire		
<b>Dimensions (W x D x H, mm / inch)</b>	Electrophoresis tank	219 x 134 x 71 / 8.62 x 5.27 x 2.79	219 x 214 x 71 / 8.62 x 8.42 x 2.79	387 x 214 x 71 / 15.24 x 8.42 x 2.79
	Gel caster	254 x 87 x 18 / 10 x 3.42 x 0.79	167 x 264 x 30 / 6.57 x 10.39 x 1.18	167 x 264 x 30 / 6.57 x 10.39 x 1.18
	Gel tray	82 x 81 x 17 / 3.23 x 3.19 x 0.67 82 x 58 x 17 / 3.23 x 2.28 x 0.67	181 x 103 x 30 / 7.12 x 4.05 x 1.18	181 x 206 x 30 / 7.12 x 8.11 x 1.18
	Comb	225 x 45 / 8.86 x 1.77	158 x 46 / 6.22 x 1.81	158 x 46 / 6.22 x 1.81
	Electrophoresis unit weight (kg / lbs)	0.39 / 0.86	0.6 / 1.32	0.93 / 2.05
<b>Cat. No.</b>	<b>AAAJ6011</b>	<b>AAAJ6021</b>	<b>AAAJ6031</b>	

# Power Supply for Electrophoresis System



## Multipurpose power supply for horizontal agarose gel, vertical polyacrylamide gel running, and various blotting experiments

### Structural Functional Features

- Power supply optimized for nucleic acid and protein electrophoresis.
- Constant voltage mode and constant current mode provided.
- Provide four sets of output terminals, so four electrophoresis devices can be used at the same time.
- Space-efficient use with stackable design.



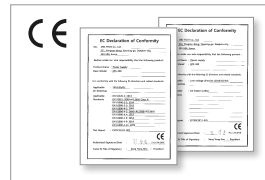
EPS-300

### Outstanding Safety

- Rapid resistance change detection and detection of current leakage to prevent accidents by cutting power.
- Protection against over-current/over-voltage/overpower.
- Over-temperature protection.

### Use Convenience Features

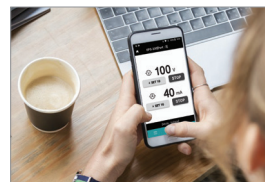
- Accurate current and voltage by microprocessor.
- Pause and restart functions.
- Count-down timer. (up to 99 hours and 59 minutes)
- Displaying the operating time.
- Safety function that cuts off the electric output when no load or sudden change of load is detected.
- If the power supply is cut off by the automatic backup function, the last set values are saved automatically.
- Possible to monitor experimental conditions such as Voltage, current value, change the setting value, stopping and reactivating. (when connecting with LC GreenBox, option)
- PC communication via RS-232 Port.



• CE certified product to ensure the electrical safety of the researchers



• Compatible with other companies' devices  
• Test for up to 4 units at the same time



• Efficient time management with mobile monitoring system (LC GreenBox, option)



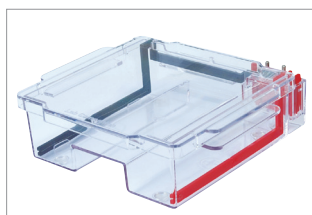
• Maximize space efficiency with stackable design

### Accessories

Cat. No.	Description	Dimension (W x D x H, mm / inch)
AAAQ1011	LC GreenBox	156 x 94 x 34 / 6.14 x 3.7 x 1.34

### Specification

Model	EPS-300
<b>Output range</b>	5~250V, in 1V increments 10mA~3000mA, in 10mA increments (Max. 300W)
<b>Type of output</b>	Constant voltage mode, constant current mode
<b>Output terminals</b>	4 pair recessed banana jack in parallel
<b>Timer</b>	1min to 99hr 59min
<b>Pause/resume function</b>	Yes
<b>Display</b>	7-segment 4 digit LED, 2 line
<b>Operating conditions</b>	0~40°C (32~104°F), 0~80% RH
<b>Dimensions (W x D x H, mm / inch)</b>	240 x 310 x 100 / 9.45 x 12.2 x 3.94
<b>Net weight (kg / lbs)</b>	2.5 / 5.51
<b>Electrical requirement (VAC, Hz)</b>	100-240VAC, 50/60Hz
<b>Current consumption (A)</b>	1.5-3.6
<b>Cat. No.</b>	AAAH6541



Electrophoresis Unit



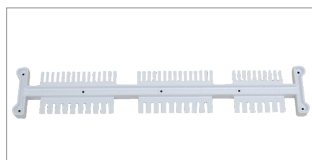
Gel Caster Unit



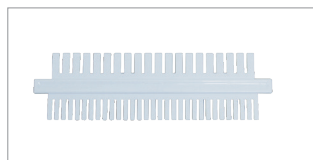
Electrode Assembly



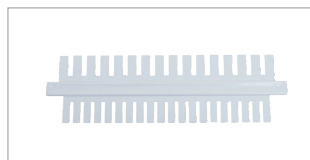
LC GreenBox (Mobile monitoring system)



Comb 27/40 well



Comb 20/31 well



Comb 16/20 well



Comb 25/34 well

Cat. No.	Description	model
AAAJ6501	Electrophoresis unit (tank, lid, electrode assembly)	EP-05
AAAJ6502	Electrophoresis unit (tank, lid, electrode assembly)	EP-10
AAAJ6503	Electrophoresis unit (tank, lid, electrode assembly)	EP-18
AAAJ6511	Gel caster unit (gel caster, gel tray)	EP-05
AAAJ6512	Gel caster unit (gel caster, gel tray)	EP-10
AAAJ6513	Gel caster unit (gel caster, gel tray)	EP-18
AAAJ6521	Electrode assembly	EP-05
AAAJ6522	Electrode assembly	EP-10
AAAJ6523	Electrode assembly	EP-18
AAAJ6531	Comb 27/40 well, thickness 1 mm - (5ea)	EP-05
AAAJ6532	Comb 20/31 well, thickness 1 mm - (5ea)	EP-10/18
AAAJ6533	Comb 20/31 well, thickness 1.5 mm - (5ea)	EP-10/18
AAAJ6534	Comb 16/20 well, thickness 1 mm - (5ea)	EP-10/18
AAAJ6535	Comb 16/20 well, thickness 1.5 mm - (5ea)	EP-10/18
AAAJ6536	Comb 25/34 well, thickness 1 mm - (5ea)	EP-10/18
AAAJ6537	Comb 25/34 well, thickness 1.5 mm - (5ea)	EP-10/18

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