

Eppendorf® Electroporation Systems**Rapid and simple electroporation****A. Eporator® System**

The Eppendorf Eporator enables simple and rapid introduction of foreign DNA into bacteria, yeasts, and other microorganisms. The device has been specially optimized for targeted transformation experiments with the highest possible efficiency. Features a variable voltage range combined with an optimized, preset time constant.



B



A

B. Multiporator® Electroporation Systems

Multiporator 36205-10 is optimally balanced for efficient and gentle electroporation of eukaryotic cells. System features electronically regulated pulses in microsecond range to minimize damage to eukaryotic cells. The relevant parameters of voltage and pulse duration are directly set, and the electronic pulse discharge ensures that they will be maintained exactly—independent of the sample resistance—for reliable and reproducible results. Applications include the transfection of plant cells.

Multiporator 36205-20 features a bacteria module to extend the application range of the multiporator to the transfection of bacteria and yeasts.

**Specifications****Eporator**

Pulse voltage: 200 to 2500 V
Time constant: 5 ms nominal
Output waveform: decaying exponential waveform with RC time constant of 5 ms
Capacitor: 10 µF, 2500 V pulse discharge
Interface: USB 2.0
Charge time: <10 seconds

Multiporator

Pulse voltage: 20 to 1200 V
Time constant: 15 to 500 µs, 5 µs increments
Pulse form: exponentially diminishing
Multiple pulsing: 1 to 99, with 1-min interval

Multiporator with Bacteria Module

Pulse voltage: 200 to 2500 V
Time constant: 5 ms
Pulse form: exponentially diminishing
Resistance: 600
Capacitor: 10 µF
Multiple pulsing: 1 to 99, with 1-min intervals

Key	Description	Application	Power (VAC, Hz)	Catalog number	Price
A	Eporator	Microorganisms, bacteria, and yeast	100 to 240, 50/60	GH-36205-01†	
	Multiporator	Eukaryotes (except yeast)	110 to 220, 50/60	GH-36205-10†	
B	Multiporator with bacteria module	Eukaryotes, bacteria, microorganisms, yeast	110 to 220, 50/60	GH-36205-20†	

†220 VAC customers should specify country at time of order for proper power cord.

Sterile Electroporation Cuvettes**Presterilized and ready to use**

- Withstand high-voltage pulsations or field strength
- Individually wrapped and presterilized with sterile transfer pipette
- Autoclavable polycarbonate



Application	Gap width	Cap color	Catalog number	Price/pk of 50
Highest field strength for bacterial cells	1 mm	White	GH-25714-00	
Medium field strength for yeast cells	2 mm	Blue	GH-25714-02	
Lowest field strength for mammalian cells	4 mm	Green	GH-25714-04	

Eppendorf® Electroporation Buffers**Tested and proven for better results**

- Sterility and cytotoxicity tested—free of mycoplasma, endotoxins, and pyrogens



The hypo-osmolar buffer is for electroporation and increases transfection efficiency, particularly for mammalian cells. It allows the electrode formation of the cells and, as a result, easier membrane penetration.

The iso-osmolar buffer is for electrofusion of animal cells. It optimizes your cell fusion parameters by only requiring a few cells in your chamber.

Buffer type	Bottle size	Catalog number	Price
Hypo-osmolar buffer	100 mL	GH-36205-60	
Iso-osmolar buffer	100 mL	GH-36205-62	

Warning—These products are not approved or intended for, and should not be used for, medical, clinical, surgical or other patient oriented applications.

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