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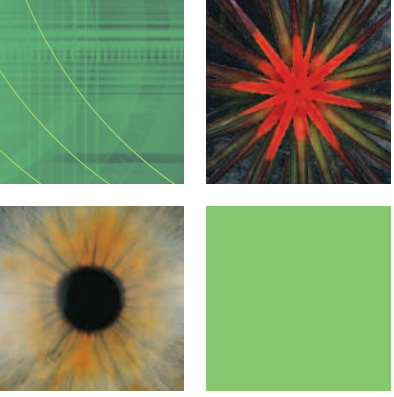
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GENE TRANSFER: ELECTROPORATION

MicroPulser™ Electroporator

- Compact, space-saving design
- Audible and visible pulse indicators
- Display of time constant and actual voltage delivered to monitor reproducibility
- 3,000 V capability for improved efficiency in cuvettes with larger volume

An Ideal Gene Transfer Tool for Bacteria, Fungi, and Other Microorganisms

Advantages of Electroporation

The MicroPulser electroporator is a simple yet versatile electroporator that provides a safe and reproducible way for you to transform bacteria, fungi, and other microorganisms. Transformation efficiencies much higher than those obtained by chemical methods can be achieved by electroporation.

The MicroPulser electroporator's compact, space-saving design comes with preset optimized programs for transformation of commonly studied bacteria and fungi. Its audible and visible pulse indicators display time constant and actual voltage delivered (200–3,000 V with 10 V precision) to monitor reproducibility and ensure accuracy, while its arc-quenching (ARQ) system protects valuable samples. A broad range of parameters is available for manual optimization.

The MicroPulser electroporator offers safe operation, rapid optimization, and outstanding results.

Unique Features

- ARQ system that reduces arcing, protecting against loss of valuable samples
- Rapid program selection — preset optimized programs for commonly studied bacteria and fungi
- Efficient sample handling with one-button pulse delivery, rapid charge time, and attached cuvette chamber



BIO-RAD

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MicroPulser Electroporator

Preprogrammed Settings

The MicroPulser is preprogrammed with settings for electroporation of a number of commonly used organisms. The table below lists programs that are available under Bacteria Settings and Fungi Settings.

Mnemonic	Organism	Parameters: Voltage (kV)	Parameters: Number of Pulses	Parameters: Time Constant* (ms)
Bacteria				
Ec1	*E. coli* (0.1 cm cuvette)	1.8	1	—
Ec2	*E. coli* (0.2 cm cuvette)	2.5	1	—
StA	*S. aureus* (0.2 cm cuvette)	1.8	1	2.5
Agr	*A. tumefaciens* (0.1 cm cuvette)	2.2	1	—
Ec3	*E. coli* (0.2 cm cuvette)	3.0	1	—
Fungi				
Sc2	*S. cerevisiae* (0.2 cm cuvette)	1.5	1	—
Sc4	*S. cerevisiae* (0.2 cm cuvette)	3.0	1	—
ShS	*S. pombe* (0.2 cm cuvette)	2.0	1	—
Dic	*D. discoideum* (0.4 cm cuvette)	1.0	2	1.0
Pic	*P. pastoris* (0.2 cm cuvette)	2.0	1	—

* Unless the pulse time is truncated below 5 ms, the unit will deliver the optimal time constant of ~5 ms to samples in high-resistance media.

Cuvettes

Bio-Rad's high-quality electroporation cuvettes are available in three different gap widths — 0.4, 0.2, and 0.1 cm — for optimal field strength delivery to a wide range of cell types. The cuvettes ensure maximum electroporation efficiency and reproducibility between experiments, are color-coded, and have been sterilized by gamma irradiation.

Specifications

Input voltage	100–120 V or 220–240 V
Maximum output voltage and current	3,000 V peak into >600 W load; limited at 100 A peak maximum
Output waveform	Decaying or truncated-decaying exponential waveform with RC time constant
Output voltage and pulse duration adjustment	Voltage adjustable in 200–3,000 V range with 10 V precision; 5 ms default or 1–4 ms with 0.1 ms precision; 5 bacterial and 5 fungal preset programs
Ambient operating temperature	3.5–35ºC
Dimensions (W x D x H)	29 x 21 x 8 cm
Weight	2.9 kg

Ordering Information

Catalog #	Description
MicroPulser Electroporator	
165-2100	**MicroPulser Electroporator**, includes a cuvette chamber with leads, 10 sterile cuvettes (5 each of 0.1 cm and 0.2 cm gap)
Cuvettes	
Standard Packs	
165-2088	Gene Pulser®/MicroPulser Cuvettes, 0.4 cm gap, 50 (regular pack)
165-2086	Gene Pulser/MicroPulser Cuvettes, 0.2 cm gap, 50 (regular pack)
165-2089	Gene Pulser/MicroPulser Cuvettes, 0.1 cm gap, 50 (regular pack)
Jumbo Packs*	
165-2091	Gene Pulser/MicroPulser Cuvettes, 0.4 cm gap, 500 (jumbo pack)
165-2092	Gene Pulser/MicroPulser Cuvettes, 0.2 cm gap, 500 (jumbo pack)
165-2093	Gene Pulser/MicroPulser Cuvettes, 0.1 cm gap, 500 (jumbo pack)
Mini Packs	
165-2081	Gene Pulser/MicroPulser Cuvettes, 0.4 cm gap, 5 (mini pack)
165-2082	Gene Pulser/MicroPulser Cuvettes, 0.2 cm gap, 5 (mini pack)
165-2083	Gene Pulser/MicroPulser Cuvettes, 0.1 cm gap, 5 (mini pack)

* Please inquire about volume pricing.

For more information, visit us on the Web at **www.bio-rad.com/genetransfer/** or **www.bio-rad.com/rnai/**

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