



Electroporation Solutions

Reliable, Reproducible Gene Transfer Across All Cell Types

Electroporation efficiently introduces nucleic acids, siRNA duplexes, and other molecules into numerous cell types. By applying a controlled electrical field, cell membranes become temporarily permeable, allowing molecules to enter. Once inside, these molecules are assimilated into the cellular DNA.

This method is widely used for DNA, RNA, proteins, virions, and more, across both prokaryotic and eukaryotic cells. Electroporation serves as a powerful alternative or complement to chemical and lipid-based transfection methods.

Why Electroporation?

- Higher efficiency than chemical methods
- Excellent reproducibility
- Suitable for a wide range of cell types
- Scalable and highly controllable

Contact your **Lasec® Sales Representative** today.
Ts & Cs apply

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Gene Pulser Xcell System

Advanced, Flexible Electroporation

A modular system designed for both prokaryotic and eukaryotic cells, offering full control and optimisation.

Key Features:

- Exponential and square-wave pulse capability
- Supports all cell types
- Up to 3 000 V output
- Modular design
- ShockPod chamber
- PulseTrac circuitry

Programming and Optimisation:

- User-friendly digital interface
- Preset programs for common cell lines
- Manual programming for full control
- Stepwise optimisation protocol
- Storage of 144 programs and 100 experiments



Preset Cell Line Applications:

MAMMALIAN	BACTERIAL	FUNGAL
A549	Escherichia Coli	Saccharomyces Cerevisiae
BHK21	Agrobacterium Tumefaciens	Pichia Pastoris
CHO	Pseudomonas Aeruginosa	Candida Albicans
COS-7	Staphylococcus Aureus	Schizosaccharomyces Pombe
CV1	Bacillus Cereus	Dictyostelium Discoideum
HeLa	Lactococcus Pyogenes	
HEK293	Streptococcus Plantarum	
HFF		
HUT78		
Jurkat		
K562		
NIH 3T3		

System Configurations:

PRODUCT CODE	SYSTEM	DESCRIPTION
IBRD1652660	Total System	Complete Solution for all Cell Types
IBRD1652661	Eukaryotic System	For Mammalian and Plant Cells
IBRD1652662	Microbial System	For Bacteria and Fungi

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MicroPulser Electroporator

Simple and Reliable Transformation

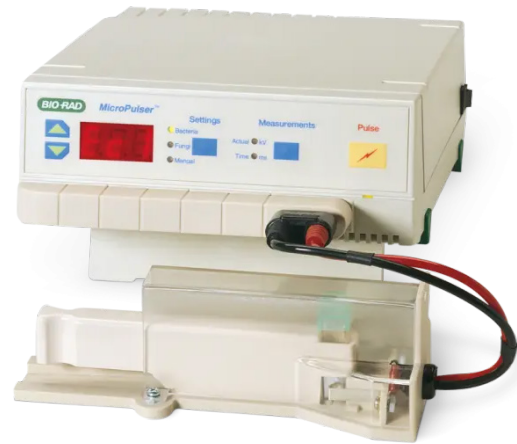
A versatile, easy-to-use system for microbial applications.

Key Features:

- One-button pulse delivery
- Preset programs for bacteria and fungi
- Arc quenching system
- 200–3 000 V range
- Compact design
- Reproducible results

Applications:

- E. coli transformation
- Yeast and fungal studies
- Routine laboratory workflows



Programmed Functions:

PROGRAM	SPECIES	CUVETTE	CONDITIONS
Ec1	E. Coli	0.1 cm	1.80 kV, 1 Pulse
Ec2	E. Coli	0.2 cm	2.50 kV, 1 Pulse
Ec3	E. Coli	0.2 cm	3.00 kV, 1 Pulse
Sta	S. Aureus	0.2 cm	2.40 kV, 1 Pulse, 2.5 ms
Ag	A. Tumefaciens	0.1 cm	1.20 kV, 1 Pulse
Sc2	S. Cerevisiae	0.2 cm	1.50 kV, 1 Pulse
Sc4	S. Cerevisiae	0.2 cm	3.00 kV, 1 Pulse
Shs	S. Pombe	0.2 cm	2.00 kV, 1 Pulse
Dic	D. Discoideum	0.4 cm	3.00 kV, 2 Pulses
Hc	P. Pastoris	0.2 cm	2.00 kV, 1 Pulse

System Configuration:

PRODUCT CODE	SYSTEM	DESCRIPTION
IBRD1652100	MicroPulser Electroporator	Transformation of Bacteria, Yeast, and other Microorganisms

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Electroporation Cuvettes

Key Features:

- Sterile, gamma-irradiated
- Colour-coded caps
- Multiple sizes available



Cuvette Selection Guide:

PRODUCT CODE	CATEGORY	DESCRIPTION	GAP SIZE	APPLICATION
BBRD1652083	Mini Pack	5 / pack	0.1 cm	Bacteria and Yeast
BBRD1652089	Standard Pack	50 / pack	0.1 cm	
BBRD1652093	Jumbo Pack	500 / pack	0.1 cm	
BBRD1652082	Mini Pack	5 / pack	0.2 cm	Bacteria, Yeast, and Mammalian Cells, including Primary and Stem Cells
BBRD1652086	Standard Pack	50 / pack	0.2 cm	
BBRD1652092	Jumbo Pack	500 / pack	0.2 cm	
BBRD1652081	Mini Pack	5 / pack	0.4 cm	Mammalian Cells, including Primary and Stem Cells, or Plant Proto-plasts
BBRD1652088	Standard Pack	50 / pack	0.4 cm	
BBRD1652091	Jumbo Pack	500 / pack	0.4 cm	



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