Gene Pulser® Electroprotocols

* We recommend adapting this protocol to use the Gene Pulser electroporation buffer (catalog #165-2676, 165-2677), which increases cell viability and transfection efficiency in mammalian cell lines.

Cell Type	Mammalian, suspension	**Molecules Electroporated**	Electrofusion
Species Used	B-cell line, unspecified, and heteromyeloma		

Before the Pulse

Cell growth medium	RPMI+ 10% Fetal Calf Serum+ 2 mM L-Glutamine (GIBCO/ BRL, Sigma)	**Growth phase at harvest**	Exponential growth
		Pre-pulse incubation	No
Wash solution	RPMI		

The Pulse

Electroporation Temperature	Room temperature	**Instruments Used**	Gene Pulser® apparatus & Capacitance Extender
Electroporation Medium*	RPMI		
		Cuvette Gap	0.2 cm
Cell Density	10 (8) cells / μl	**Voltage**	0.160 kV
Volume of Cells	200 μl	**Field Strength**	0.800 kV/cm
DNA Concentration	Not given	**Capacitor**	960 μF
DNA Resuspension Buffer	Not given	**Resistor**	(Pulse Controller) none Ω
Volume of DNA	10 (8) cells / ml	**Time Constant**	10 msec

After the Pulse

Outgrowth Medium	HAT medium and azaserine & ouabain
Outgrowth Temperature	37 °C
Length of Incubation	Not given
Selection Method or Assay Used	Not given
Electroporation Efficiency	Not given
Per Cent Survival	No fusion

Relevant Publications and/or Comments

Note: exponential values designated in parentheses.

Name of Submittor

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Date Submitted 5/8/92

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