

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.

Molecules DNA: Mammalian, suspension Cell Type Electroporated

Human, lymphocytes, primary **Species**

Used

Before the Pulse

Cell Growth Medium RPMI-1640 + 10 % Fetal Bovine Serum

(GIBCO/BRL, Sigma)

Growth Phase at Not given

Harvest

Pre-pulse Not given Incubation

Wash Solution Not given

Instruments Used Gene Pulser® apparatus & Capacitance The Pulse

Electroporation Room temperature Temperature

Electroporation RPMI-1640 + 10 % Fetal Bovine Serum Cuvette Gap 0.4 cm

Medium³

0.250 kV Voltage Cell Density 5 x 10 (6) cells/ ml

Volume of Cells 250 μl / pulse Field Strength 0.625 kV/cm

DNA Concentration 25 μg / pulse

Capacitor $^{960}\,\mu\text{F}$ **DNA Resuspension** Not given

Buffer

(Pulse Controller) Ω Resistor

Not given Volume of DNA

Not given

Time Constant 60 msec

After the Pulse

Outgrowth Temperature

Outgrowth Medium Not given

Relevant Publications and/or Comments

Note: exponential values designated in parentheses.

Used conditions as pulished by Chen, et al., Bio-Rad Technical Length of Incubation Not given

Bulletin No.1348.

Selection Method or Assay Used

Not given

Electroporation Not given Efficiency

Not given Per Cent Survival

Name of Submittor Steve Dewhurst

> University of Rochester Medical Center Institution

Address Dept. of Microbiology

601 Elmwood Ave. Box 672

Rochester, NY 14642

Survey Number

194