

## Gene Pulser® Electroprotocols

Cell Type Bacterial, gram negative

Used

**Species** *E. coli*, MV1184, JM 109

Electroporated

Molecules DNA: pUC-119, Molluscum contagiosum fragment

Before the Pulse

Cell growth medium SOC without glucose, LB

at harvest

Growth phase O.D. (600) = 0.55

Pre-pulse 0°C incubation

Wash solution water

The Pulse

Electroporation Temperature

 $0^{\circ}C$ 

water

Electroporation

**Cell Density** 

Medium

 $2 \times 10 (11) / \mu l$ 

Volume of Cells 1x10 (10) cells / ml

Not given **DNA** Concentration

**DNA Resuspension** 

**Buffer** 

Not given

 $5 \mu l$ Volume of DNA

After the Pulse

SOC without glucose Outgrowth Medium

LB

37 °C Outgrowth Temperature

60 Length of Incubation

Selection Method or **Assay Used**  ABPC (CBPC)

Electroporation

**Efficiency** 

Compared to the calcium salt method, efficiency is  $\sim 100x$  higher

Per Cent Survival Not given Voltage 2.5 kV

Field Strength

Cuvette Gap 0.2 cm

12.5 kV/cm

Instruments Gene Pulser® apparatus

Used Pulse Controller

Capacitor  $25 \mu F$ 

Resistor  $400 \Omega$  (Pulse Controller)

Time Constant

7.1 msec

Relevant Publications and/or Comments

**Note:** exponential values designated in parentheses. SOC: 2% Bacto tryptone, 0.5% Bacto yeast extract, 10mM NaCl, 2.5mM KCl, 10 mM MgCl2, 10 mM

MgSO4, 20 mM glucose.

LB: 1% Bacto tryptone, 0.5% Bacto yeast extract,

0.5% NaCl.

Name of Submittor Institution

Address

Telephone Number

Fax Number

Date Submitted 8/21/90

Survey Number

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