



Rat Cardiomyocytes were transfected using Neon Transfection Device and 0.5ug of a plasmid encoding the EGFP, 48 hours post electroporation, the cells were analyzed by light (A) and fluorescence microscopy (B).

#### I. Microporator-parameter

Pulse Voltage (V)	Pulse Width (ms)	Pulse Number	Cell Density (cells/ml)	Transfection Efficiency	Viability	Tip type
1700	20	1	$1 \times 10^7$	66%	94%	10ul
1600	10	3	$1 \times 10^7$	57%	95%	10ul
1400	20	2	$1 \times 10^7$	55%	93%	10ul

#### II. Cell information

Cell Type	Primary cell (Muscle)
Characteristics/Species	Adherent/Rat
Tissue Origin	Neonatal rat heart tissue
Media	Cardic Myocyte Media (ScienCell Research Labs)
Morphology	Epithelial
Doubling time	2- 3 days
Subculturing	Change media every 2 days
Culture conditions	Temperature 37C Atmosphere: air, 95% carbon dioxide (CO <sub>2</sub> ), 5%