



GIBCO® Rat Primary Cortical Astrocytes (Invitrogen cat # N7745-100) were transfected using the Neon™ Transfection Device and 0.5ug of a plasmid encoding the EGFP, 24 hours post-electroporation, the cells were analyzed by light (A) and fluorescence microscopy (B).

#### I. Electroporation-parameter

Pulse Voltage (V)	Pulse Width (ms)	Pulse Number	Cell Density (cells/ml)	Transfection Efficiency	Viability	Tip type
1700	20	1	$0.5 \times 10^7$		71%	90% 10ul
1400	30	1	$0.5 \times 10^7$		71%	89% 10ul
1400	20	2	$0.5 \times 10^7$		69%	87% 10ul

#### II. Cell information

Cell Type	Primary cell
Characteristics/Species	Adherent/Rat
Tissue Origin	Day 19 embryonic Sprague/Dawley rat brain, cortical
Media	85% of DMEM (Invitrogen cat# 11995-065) and 15% of Fetal Bovine Serum (Invitrogen cat# 16000-036)
Morphology	Astrocytes
Doubling time	
Subculturing	Change media every 4-5 days
Culture conditions	Temperature 37C Atmosphere: air, 95% carbon dioxide (CO <sub>2</sub> ), 5%