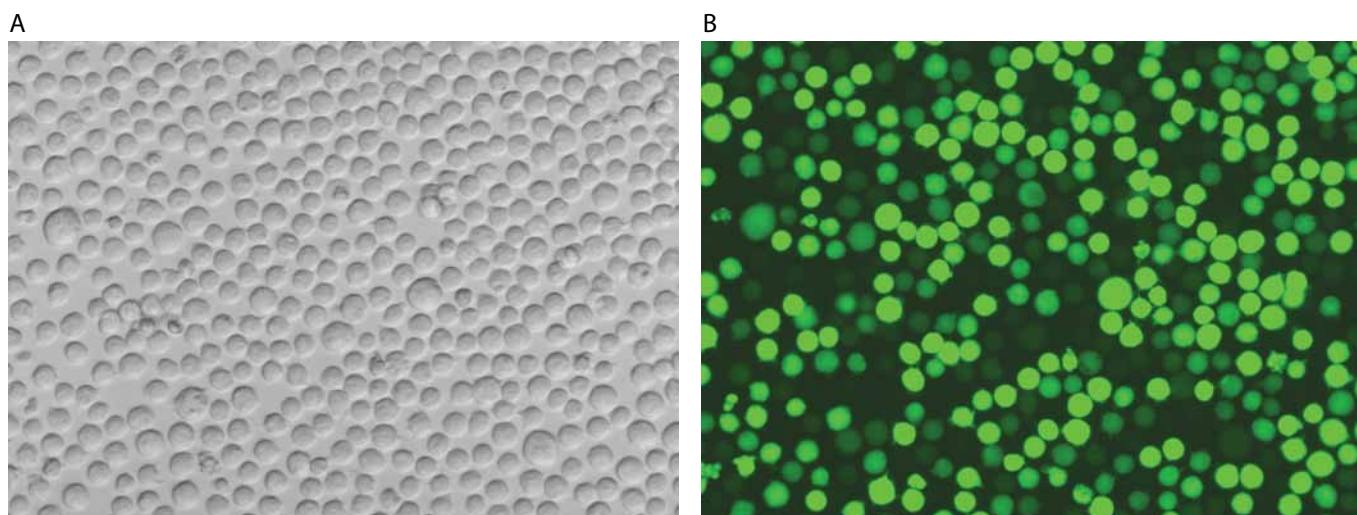


Jurkat microporation



Jurkat cells were transfected using the MicroPorator and 10 µg of a plasmid encoding EGFP. 24 hours post-microporation, the cells were analyzed by light (A) and fluorescence microscopy (B).

Electroporation parameters

Pulse voltage (v)	Pulse width (ms)	Pulse number	Cell density (cells/mL)	Transfection efficiency	Viability	Tip type
1,325	10	3	2 x 10 ⁷	94.2%	97.7%	10 µL
1,350	10	3	2 x 10 ⁷	93.7%	97.8%	100 µL

Cell information

Cell type/Description	Jurkat (immune, T cell leukemia)/Cell line
Characteristics/Species	Suspension/Human
Tissue origin	Blood
Media	RPMI 1640 with L-glutamine and 10% FBS
Morphology	Round single cell (lymphoblast)
Doubling time	25–35 hours
Subculturing	Optimal split ratio is about 1:2 to 1:3 every 2 to 3 days
Culture conditions	Temperature: 37°C; atmosphere: air 95%/carbon dioxide (CO ₂) 5%