

Tech-Trends Volume 2, Series 1

Multi-well Electroporation for siRNA!

BTX, the leader in electroporation, has developed an innovative product line for Multi-Well Electroporation. The HT System boosts productivity by running multiple samples in seconds, increasing yields and viability. The key to the system are the BTX Multi-well electroporation plates. The HT Plates come in either a standard 96 well format or a 25 well (5 x 5) format.







High Throughput Electroporation of siRNA

ECM® 830 HT 25/96 Multi-Well PROTOCOL Cell Line: Primary human PBL Transfectant: In Vitro Transcribed RNA (GFP) Protocol PR0688

Cell Preparation:

Human PBL's were stimulated with anti-OKT3 (30ng/ml) and IL-2 (50cu/ml) for three days, counted and washed 1 X in Opti-MEM. The cell pellet was resuspended in Opti-MEM to a final cell density of 2.5 X 107c/ml

Electroporation Settings:

Choose Mode:	LV	
Set Voltage:	500 V	
Electrode Gap:	4mm	
Set Pulse Length	1: 800µsec	
Set Number of Pulses: 1		
Pulse Interval:		
Electrode Type:	multi-well plates 4mm gap desired	
Field Strength:	1250volts/cm	

Electroporation Procedure:

Volume:	200ul
RNA Amount:	10µg (2µg/106cell)
Temperature:	Room temperature
Pulse: Press Automatic Start to activate Charge and	
Pulse Sequence	
Post Pulse Treatmen	t: Immediately following
electroporation the cells	were transferred to culture
media	
Results: 80-90% Cell \	/iability

90% of transgene expression **Reference**: Beta Site: Yangbing Zhao, Phd MD, Surgery Branch of National Cancer Institute, NIH, Bethesda MD 20892



Molecular Delivery Systems

84 October Hill Rd. Holliston, MA 01746 Toll Free Ph: 800-272-2775 or 508-893-8999 Email: btxinfo@harvardapparatus.com Web: www.BTXonline.com