



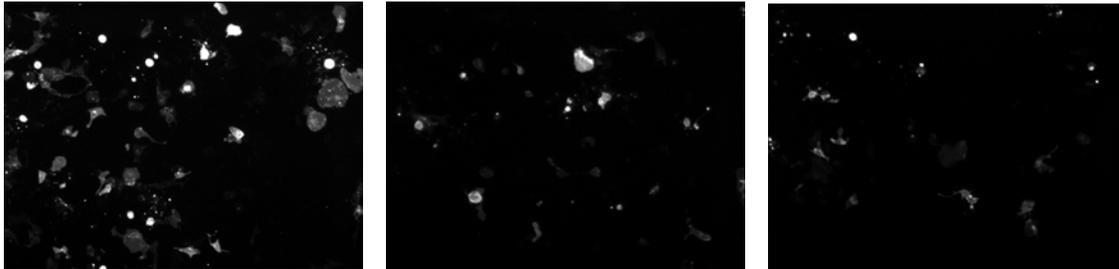
TrojanPORTER™ Tops the Competition: HEK-293 Transfection

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TrojanPORTER™ Transfection Reagent is a convenient, biodegradable, cationic polymer that allows for simple same day, high efficiency, and low cost gene delivery in mammalian cell lines. The following data was provided by Tamara Adams of Maine Medical Center Research Institute, who used TrojanPORTER to transfect HEK-293.

Tamara tested TrojanPORTER against Nanofectin from PAA and Lipofectamine™ 2000 from Invitrogen. In summary, TrojanPORTER performed at least 2X better vs. the other reagents. "I am very pleased with the TrojanPORTER results" Tamara commented. "I used an in-house vector, which has been giving our lab a hard time, and a control vector. Our vector did so well in this test that I was shocked".

Transfection of HEK-293 Cells Using Three Different Reagents



TrojanPORTER

Lipofectamine 2000

Nanofectamine

Summary Protocol

The cells were plated the day prior to transfection. TrojanPORTER was used as described in the protocol for a 6-well plate. For each well, 4 µg of circular retrovirus DNA was added to 1000 µl of serum free media, and 8 µl of TrojanPORTER was added to 1000 µl of SFM. After 5 minutes, the TrojanPORTER and DNA solutions were combined and incubated for 20 minutes. Then, after removing the culture medium from the cells, the TrojanPORTER:DNA solution was added to the cells and incubated for 6 hours in serum free media. The cells were approximately 75% confluent at time of transfection. After 6 hours, serum-containing medium was added back to the wells.

The pictures above were taken 24 hours post-transfection. This was repeated exactly for Nanofectin and Lipofectamine 2000.

Cell death was estimated to be at 25-30% with the other two reagents, but only at about 20% for TrojanPORTER.

Conclusion

The TrojanPORTER Transfection Reagent provides high efficiency transfection and low cytotoxicity compared to competitor's reagents. According to scientist Tamara Adams, "I was very pleased with the results and would like other people to know that this [TrojanPORTER Transfection Reagent] works well".

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