

magnefect use for primary neuron transfection

High Performance Transfection Products

THE FLEXIBLE SYSTEMS FOR IMPROVED PRIMARY NEURON TRANSFECTION

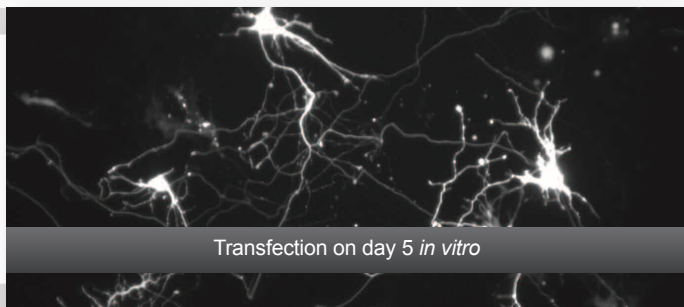
The magnefect systems from nanoTherics use improved gene transfection technology applying oscillating magnet arrays and magnetic nanoparticles to improve particle/DNA uptake into cells.



The systems are proven to provide:

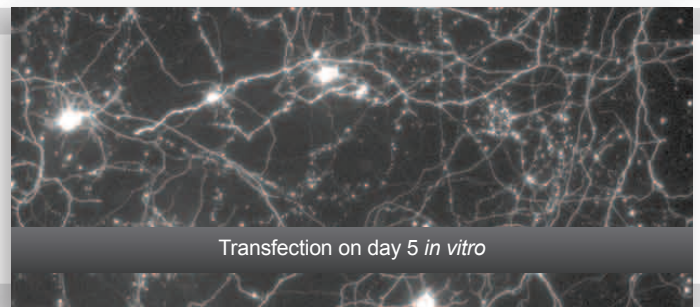
- 🕒 **Excellent cell viability even 96 hours post transfection (>90%):** Less precious cells needed and viability maintained for further experiments.
- 🕒 **Improved transfection efficiency and effectiveness:** Ability to use with difficult cell types.
- 🕒 **Adherent state transfection:** Can transfect at desired stages of growth (\leq Day 21 *in vitro*) without need of trypsinisation/detachment of cells.
- 🕒 **Ability to re-transfect:** Potential to improve transfection efficiency.
- 🕒 **Low running costs (as low as \$0.1 per well):** No additional/hidden costs, no special plates/media.
- 🕒 **Speed (<30 minutes) and scalability:** Fast transfection possible in 6, 24 and 96-well plates.

Primary Hippocampal Neuron Transfection



(Data Courtesy of Dr Joseph Steiner, Associate Professor of Neurology, Johns Hopkins University, USA)

Primary Cortical Neuron Transfection



(Data Courtesy of Dr Elena Di Daniel, Principal Scientist, Takeda Pharmaceuticals, Cambridge, UK)

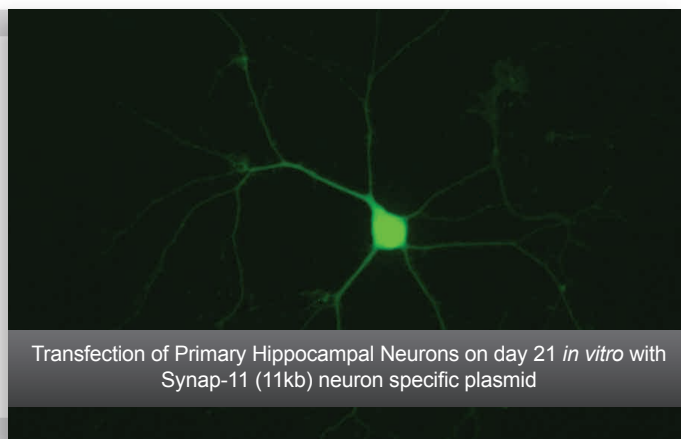
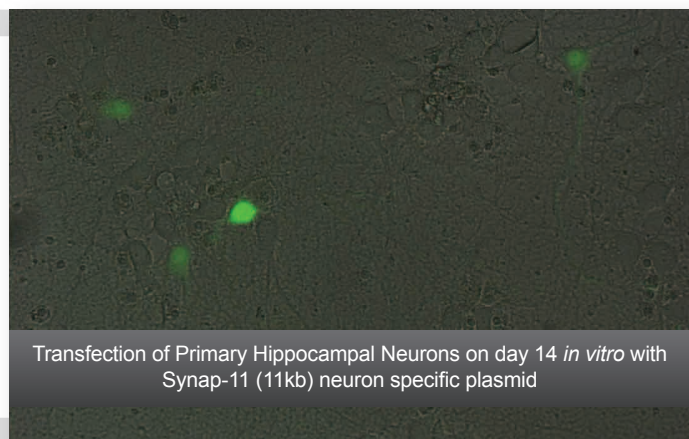
See What Our Customers Say...

Dr Joseph Steiner, Associate Professor of Neurology, Johns Hopkins University, USA

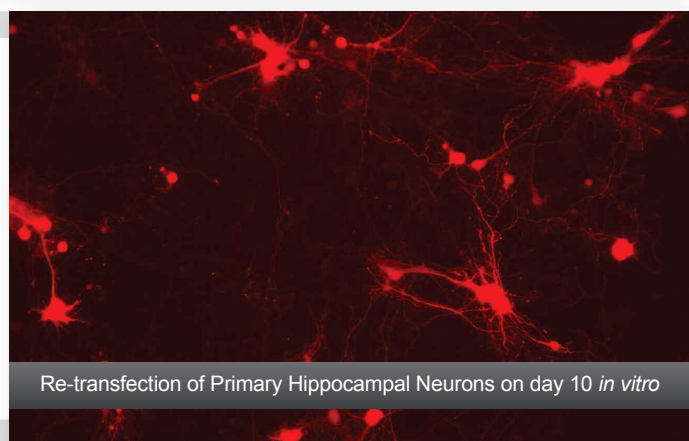
"I am very impressed with the magnefect-nano and its capabilities in transfecting primary neuronal cultures. Not only do we see better viability of the cells post-transfection compared to other commercial transfection devices we have used, but the magnefect-nano can also be used to transfect fully differentiated neurons adherent to the culture wells at various time points after plating. Retransfection of the cultures is also an option with this device. I have also thoroughly enjoyed working with the scientists at nanoTherics, where I have received full support from them while optimizing transfection procedures for primary neuronal cultures."

MATURE PRIMARY NEURON TRANSFECTION

Unlike electroporation techniques, the magnefect range of transfection devices can transfect primary neuronal cells after they are plated and not in suspension, offering possibility to transfect cells at the desired stage of growth.

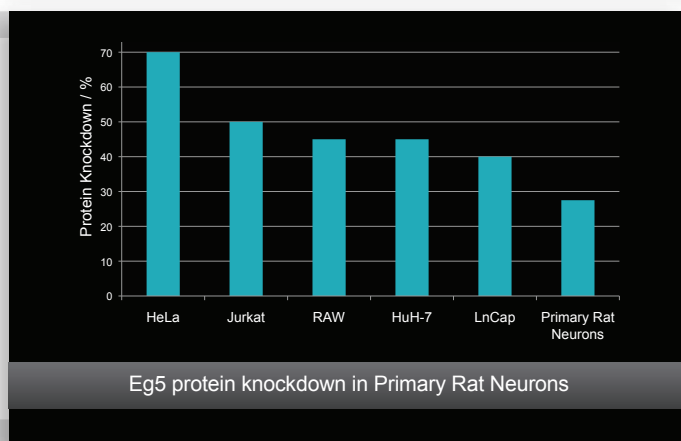


Re-Transfection



(Data Courtesy of Dr Joseph Steiner, Associate Professor of Neurology, Johns Hopkins University, USA)

siRNA Transfection



(Data Courtesy of Janssen Pharmaceutica, Belgium)

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