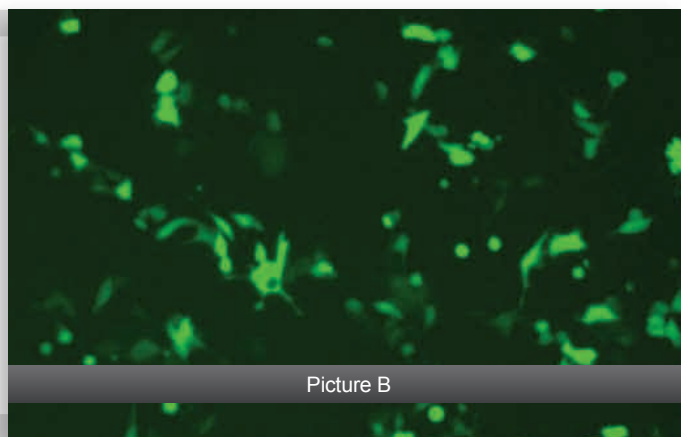
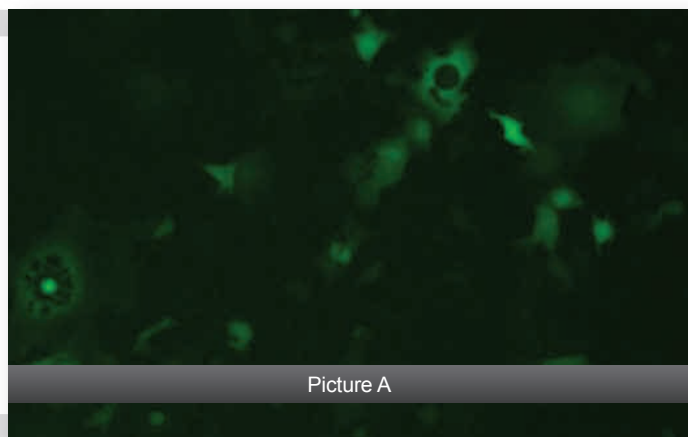
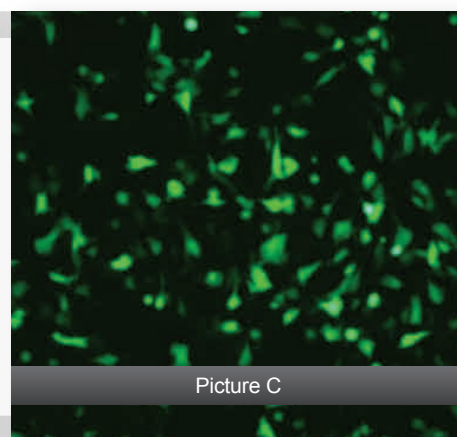
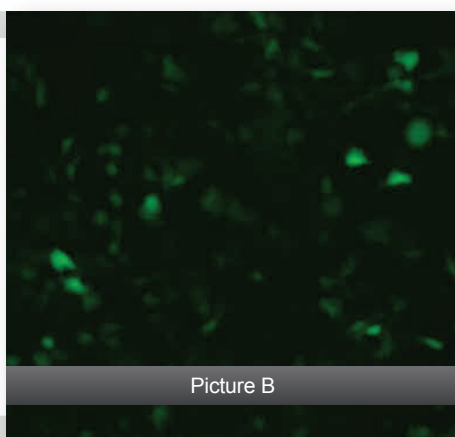
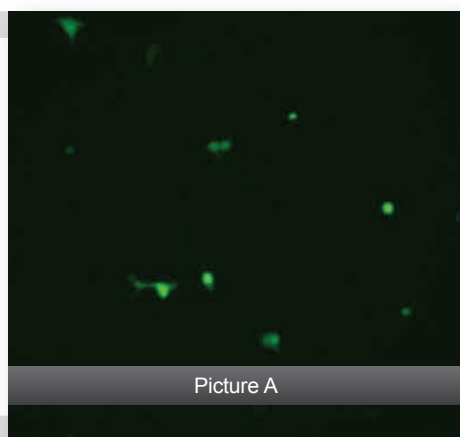


PROTEIN EXPRESSION

FLUORESCENT MICROSCOPY IMAGES OF CELLS TRANSFECTED WITH DIFFERENT TRANSFECTION SYSTEMS



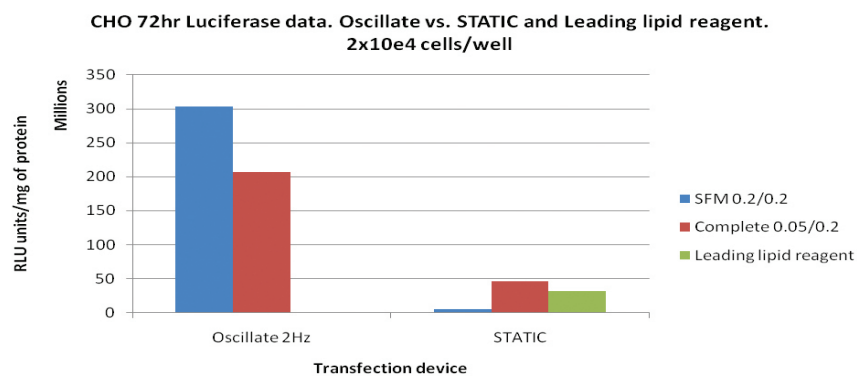
HEK 293 Cells were transfected with pEGFP-N1 using an electroporation device **(A)** or the magnefect-nano™ transfection system **(B)** with. Cells were analysed 48 hours post-transfection by fluorescence microscopy. Both images were taken using the same exposure time and settings.



Undifferentiated SH-SY5Y Cells were transfected with pEGFP-N1 using a lipid reagent **(A)**; an electroporation device **(B)** or the magnefect-nano™ transfection system **(C)** with. Cells were analysed 48 hours post-transfection by fluorescence microscopy. All images were taken using the same exposure time and settings.

PROTEIN EXPRESSION

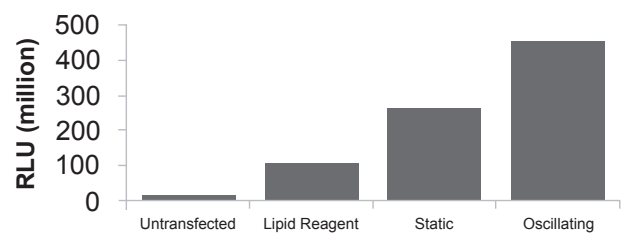
COMPARISONS OF PROTEIN EXPRESSION IN HARD-TO-TRANSFECT CELL TYPES TRANSFECTED WITH DIFFERENT TRANSFECTION SYSTEMS



CHO Cells were transfected with LUX plasmid using a lipid reagent (i); static magnets (ii) or the magnefect-nano™ transfection system (iii). 96-well plate, seeding density: 2x10⁴ cells/well; Serum starved: 16 hours prior to transfection, 2 Hz, 0.2 mm, 30 minutes transfection. After 72 hours over expression of plasmid was detected at 72 hours using the luciferase assay.



Picture A



Picture B

Human Umbilical Vein Endothelial Cells (HUVEC) (A) or PC12 (B) were transfected using pEGFP-N1 (A) or pCIK-Lux (B), respectively using a lipid reagent or our magnefect-nano™ system with either a static or an oscillating array. After 48 hours, over-expression of plasmid were detected using either flow cytometry (A) or the luciferase assay (B).

CONCLUSION

magnefect-nano™ system out-performs the lipid reagent and electroporation systems during protein expression in mammalian cells.