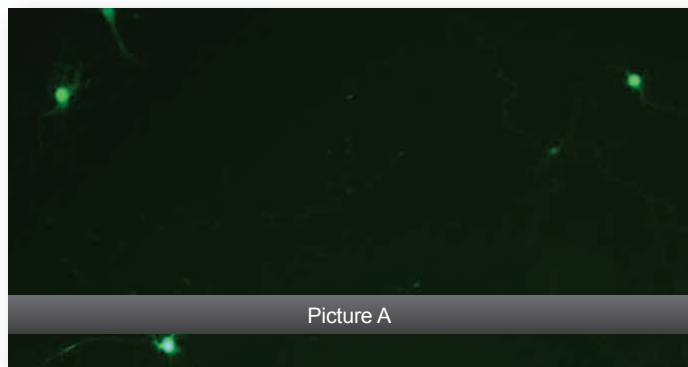


## MATURE RAT HIPPOCAMPAL NEURON CELLS DIV 21



Primary Hippocampal Neuron Cells were transfected in a PEI-coated Grenier Bio-One® 96-well tissue culture treated plate using the magnefect-nano™ transfection system with 0.15 µl NeuroMag and 0.08 µg of a plasmid encoding GFP driven by a Synapsin-1 promoter per well. Cells were analysed 72 hours post-transfection by fluorescence microscopy (A) and light microscopy (B).

### ⌚ CELL SEEDING PARAMETERS (BEST CONDITIONS)

**Plate type:** Grenier Bio-One® 96-well plate (tissue culture treated), coated with 15 µg/ml PEI  
**Cell seeding density:** 2.0 x10<sup>4</sup> cells/well  
**Cell seeding volume:** 100 µl  
**Cell seeding time:** 21 days prior to transfection  
**Serum starve:** Yes

### ⌚ MAGNEFACT-NANO™ PARAMETERS (BEST CONDITIONS)

**Frequency:** 2 Hz  
**Displacement:** 0.2 mm  
**Time:** 30 minutes (3600 cycles)  
DNA-nTMAG complexes were left in wells  
**Optimal length of time for over expression:** 72 hours

### ⌚ TRANSFECTION COMPLEX (BEST CONDITIONS)

**Transfection reagent:** Nanotherics/Oz Biosciences NeuroMag  
**Transfection reagent (volume/well):** 0.15 µl  
**DNA (mass/well):** 0.08 µg  
**Transfection medium:** Serum-free DMEM, topped up to 200 µl final volume with NeuroBasal™ medium with supplements  
**Transfection volume:** 100 µl

### ⌚ CELL INFORMATION

**Cell type:** Rat Hippocampal Neurons (Neuromics)  
**Species:** Rat  
**Medium:** Serum-free NeuroBasal™ medium with 2% B27 Supplement and 0.5 mM GlutaMax (Invitrogen)  
**Cell density prior to transfection:** Medium (50 – 60%)  
**Culture condition:** Temperature, 37°C; Atmosphere: 95% air, 5% CO<sub>2</sub>