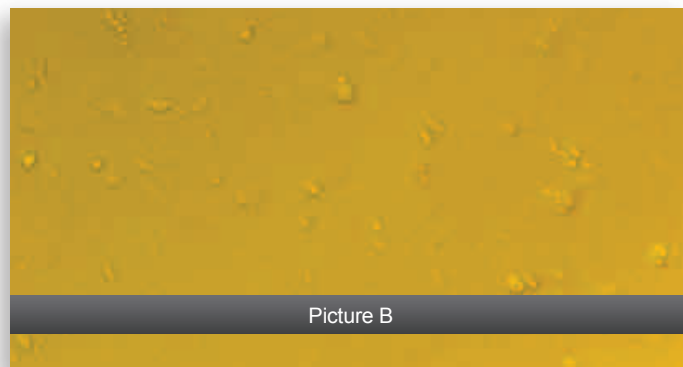
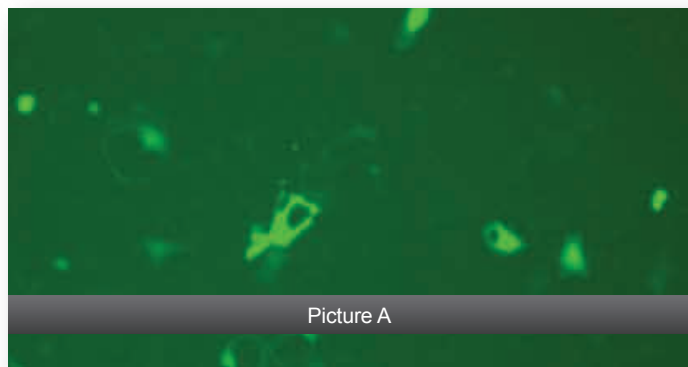


## HUMAN UMBILICAL VEIN ENDOTHELIAL CELLS (HUVEC)



Human Umbilical Vein Endothelial Cells were transfected in a Costar® 24-well tissue culture treated plate using the magnefect-nano™ transfection system with 1.2 µl nTMAG and 1.2 µg of pEGFP-N1 per well. Cells were analysed 48 hours post-transfection by fluorescence microscopy (A) and light microscopy (B).

### CELL SEEDING PARAMETERS (BEST CONDITIONS)

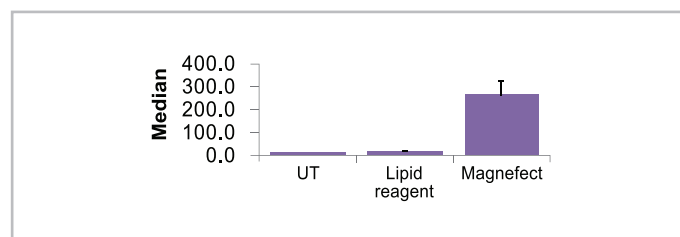
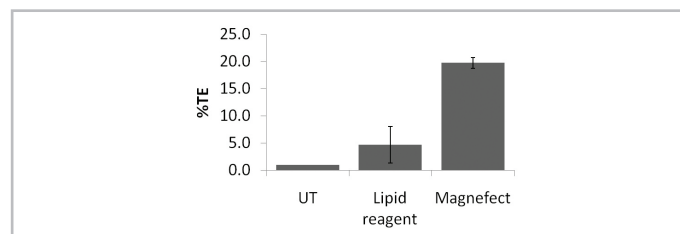
**Plate type:** Costar® 24-well plate (tissue culture treated)  
**Cell seeding density:**  $1.0 \times 10^4$  cells/well  
**Cell seeding volume:** 600 µl  
**Cell seeding time:** 24 hours prior to transfection  
**Serum starve:** 2 hours prior to transfection

### TRANSFECTION COMPLEX (BEST CONDITIONS)

**Transfection reagent:** Nanotherics nTMag  
**Transfection reagent (volume/well):** 1.2 µl  
**DNA (mass/well):** 1.2 µg  
**Transfection medium:** Serum-free Large Vessel Endothelial Cell Growth Basal Medium (ZHM-2951, TCS Cell Works)  
**Transfection volume:** 600 µl

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

**Frequency:** 3 Hz  
**Displacement:** 0.3 mm  
**Time:** 30 minutes (3600 cycles)  
DNA-nTMAG complexes were left in wells  
**Optimal length of time for over expression:** 48 hours



### CELL INFORMATION

**Cell type:** Human Umbilical Vein Endothelial Cells (HUVEC), early passage from TCS Cell Works (ZHC-2301)  
**Species:** Human  
**Medium:** Complete Large Vessel Endothelial Cell Growth Medium Package (ZHM-2961, TCS Cell Works)  
**Cell density prior to transfection:** Medium (50 – 60%)  
**Culture condition:** Temperature, 37°C; Atmosphere: 95% air, 5% CO<sub>2</sub>