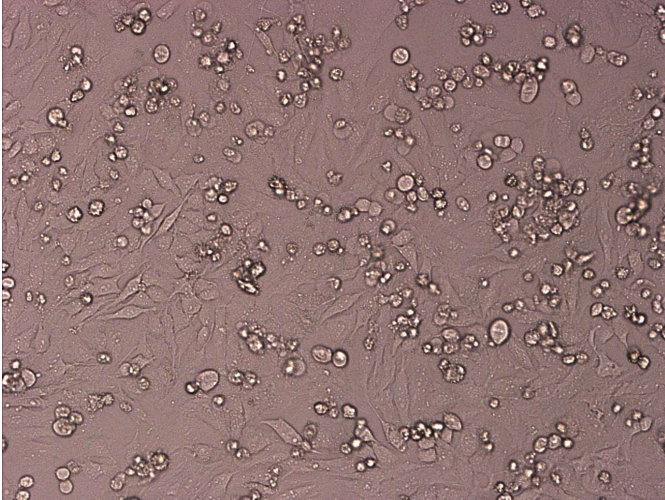


High performance gene delivery

HeLa

A



B



HeLa cells were transfected in a Iwaki® 96-well tissue culture treated plate using the magnefect-nano™ transfection system (96-well plate magnet) with 0.05 µl nTMAG and 0.05 µg of a plasmid encoding EGFP per well. 48 hours post-transfection, the cells were analysed by light (A) and by fluorescence microscopy (B).

Grey (marked with a ●) denotes values for the 96-well plate magnet format

Blue (marked with a ■) denotes values for the 24-well plate magnet format

Cell seeding parameters

Plate type: ● Iwaki® 96-well plate or ■ Costar® 24-well plate (tissue culture treated)

Cell seeding density: ● 1.2×10^4 or ■ 7.2×10^4 cells/well (3.8×10^4 cells/cm²)

Cell seeding volume: ● 100 µl or ■ 600 µl

Cell seeding time: 24 hours prior to transfection

Serum starve: No

Transfection complex (see magnefect-nano™ protocol for more details)

Transfection reagent: nTMAG

Transfection reagent (volume/well): ● 0.05 µl or ■ 0.3 µl

DNA (mass/well): ● 0.05 µg or ■ 0.3 µg

Transfection medium: EMEM (EBSS) Medium (i.e. serum- and supplement-containing)

Transfection volume: ● 100 µl or ■ 600 µl

Medium change after transfection: No

magnefect-nano™ parameters

Frequency: 2 Hz

Displacement: 0.2 mm

Time: 1 hour (7200 cycles)

Cell information

Cell type: HeLa (cell line; adherent)

Species: Human

Tissue origin: Cervix

Morphology: Epithelial

Medium: EMEM (EBSS) Medium; 10% FCS; L-glutamine; antibiotics

Culture condition: Temperature, 37°C; Atmosphere, 95% air, 5% CO₂