Improve Your Transfection Efficiency with ExpreS²

Our Transfection Reagent, TRx5, has been optimised for insect cell transfection. The performance of ExpreS² TRx5 in Sf9, Sf21 and S2 cells is superior to other commonly used transfection reagents, when compared head-to-head.

Key Advantages and Features

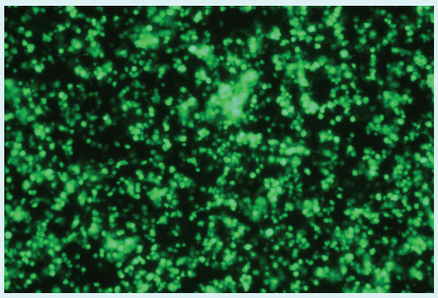
- Works perfectly in serum-containing and serum-free conditions
- Consistently high transfection rates
- Not toxic to the cells
- Transfection in static or suspension cultures
- Mix and add to cells – no need to change medium
- Customised batch sizes are available – aliquoted or bulk
- Large volume transfections possible

1mL of Insect-TRx5 is enough to transfect 2 x 10^8 cells

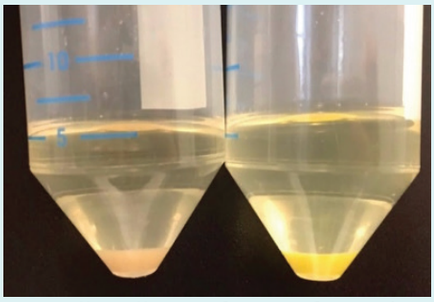
Purchase the ExpreS² Kit

And complement your toolbox for protein expression :

- ExpreS² Plasmids
- ExpreS² Cells
- Transfection Reagent, TRx5
- Culture Media for S2 Cells
- Vector Maps and Protocols



S2 cells expressing green fluorescent protein (GFP) upon transfection with ExpreS² Insect-TRx5 reagent



S2 cell pellets of transfected cells (left) compared to cells transfected with GFP using ExpreS² Insect-TRx5 (right)

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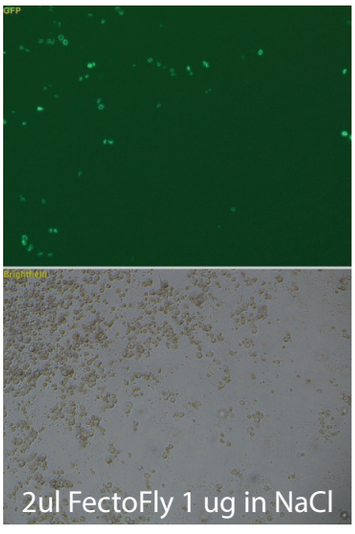
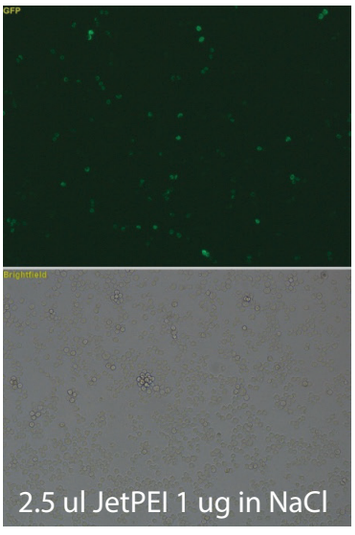
Case:

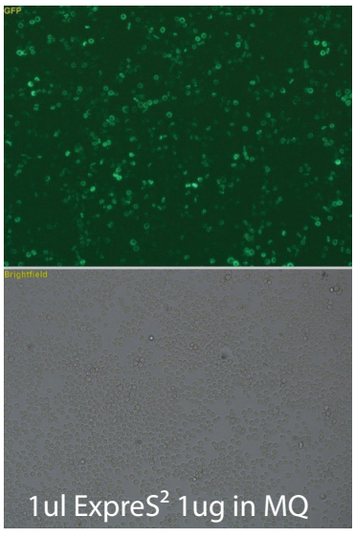
ExpreS² Insect-TRx5 improves transfection efficiency and yield

A study performed at the Wageningen University compared transfection ratio in Sf21 Cells using ExpreS² Insect-TRx5, JetPEI and FectoFLY. The results pictured below, show the high transfection efficiency and expression levels of DNA plasmid in Sf21 cells, using ExpreS² Insect-TRx5 cultures.

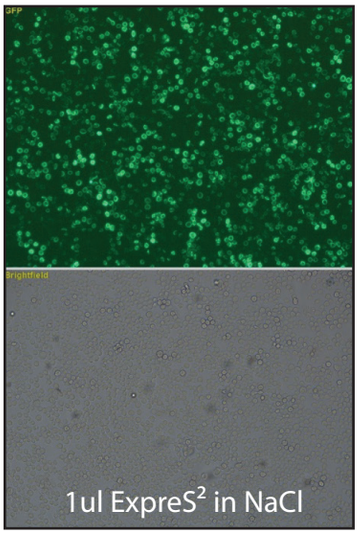
Pictures Below Were Taken 40 Hours Post-Transfection







To reach similar expression levels, 4 times more JetPei is needed



Dilution in 150nM NaCl increases efficiency and expression levels

Wageningen University, 2014

Additional Advantages noted by Customer

- Transfection using an 1:1 ratio leads to an **efficiency of around 90%**
- Increasing the ratio leads to higher GFP expression but efficiency somewhat lower (for NaCl diluted)
- No need to change culture medium to serum-free medium prior to transfection, nor after transfection due to low levels of toxicity, when diluted in NaCl

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