



## VIRAL TRANSDUCTION

### OVERVIEW

TransPlus™ Virus Transduction Enhancer (cat.# V050) is a mixture of polymer optimized for the infection of lentivirus or retrovirus to most cells. It can increase the transduction rate up to 10-fold. TransPlus™ is provided as a 500x solution, sufficient for 500 transductions for a 24 well plate.

### PROCEDURE

1. On Day 1, Plate 50,000 cells per well in a 24 well plate in cell culture medium.
2. Cells should be between 50 to 70% confluent on Day 2.
3. Aspirate medium from cells.
4. Combine culture medium with TransPlus to a 1X final concentration.

**Example:** Add 1 µl of TransPlus to 500 µl culture medium and then transfer to each well.

5. Add virus to each well and rock the plate to mix well.

**Optional:** Add virus to different wells at varying MOIs (5, 10 and 20, etc.) to optimize the transduction.

6. On Day 5, about 72 hours post transduction, check the cells for reporter expression if the viral construct has a reporter like GFP.
7. Aspirate medium. Wash the cells with PBS.
8. Add 100µl of Lysis Buffer to each well.
9. Titrate virus according to protocol given titration kit.

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