

Product Specification Sheet

Product Name	TransPlus™ Virus Transduction Enhancer
Description	TransPlus™ Virus Transduction Enhancer 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.
Catalog Number	V050
Size	500 µl
Shipping	Room temperature
Storage and Stability	Store at 4 °C. This product is stable for 6 months when stored as directed.
Quality Control	Each lot of TransPlus™ Virus Transduction Enhancer is tested for sterility and successfully precipitates retroviral particles.
Restricted Use	For Research Use Only. Not for use in diagnostic or therapeutic procedures.

Protocol

TransPlus™ Virus Transduction Enhancer

OVERVIEW

TransPlus™ Virus Transduction Enhancer (cat.no. 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.
6. 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.
8. On Day 5, about 72 hours post transduction, check the cells for reporter expression if the viral construct has a reporter like GFP.
9. Aspirate medium. Wash the cells with PBS.
10. Add 100µl of Lysis Buffer to each well.
11. Titrate virus according to protocol given titration kit.