

# Product Specification Sheet

<b>Product Name</b>	<b>TransPlus™ Virus Transduction Enhancer</b>
<b>Description</b>	TransPlus™ Virus Transduction Enhancer is a mixture of polymers 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.
<b>Catalog Number</b>	V050
<b>Size</b>	500 µl
<b>Shipping</b>	Ambient Temperature
<b>Storage and Stability</b>	Store at 4° C. This product is stable for 6 months when stored as directed
<b>Quality Control</b>	Each lot of TransPlus™ Virus Transduction Enhancer is tested for sterility and successfully increases the transduction efficiency of viral particles.
<b>Restricted Use</b>	For Research Use Only. Not for use in diagnostic or therapeutic procedures.



# Protocol (V050)

## Working Solution Preparation

1. On Day 1, plate 50,000 cells per well in a 24-well plate in cell culture medium.
2. Cells should be 50-70% 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, 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 100 µl of lysis buffer to each well.
9. Titrate virus according to given titration kit protocol.

