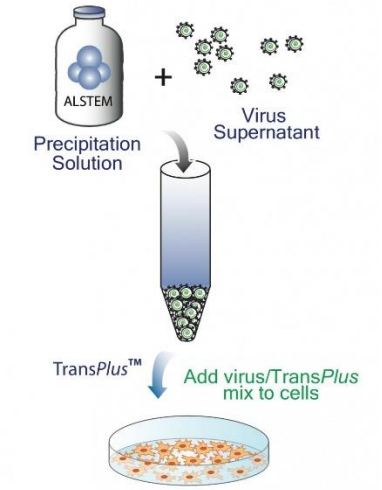
TransPlus™ Virus Transduction Enhancer

Catalogue number: V020; Size: 100 ul and V050; Size: 500 ul

Description:

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 100 transductions in a 24 well plate. It is intended for retroviral or lentiviral transduction.



Specifications:

Volume	100 µl (V020) / 500 µl (V050)
Shipping	Ambient temperature
Storage and Stability	This product is stable for 3 months when stored in 4 °C or 6 months if store at -20 °C.
Quality Control	Each lot of TransPlus Virus Transduction Enhancer is tested for sterility and successful increase in transduction efficiency of viral particles.
Restricted Use	For Research Use Only. Not for use in diagnostic or therapeutic procedures.

Related Products:

Products	Catalogue number	Description
Lentiviral Expression Vectors	LV series	Various lentiviral expression vectors for your research needs.
Lentiviral Reporter Plasmids	LV series	Various lentiviral reporter vectors for your research needs.
Lentiviral Packaging Mix	VP100	Ready-to-use 3rd generation HIV-based lentiviral packaging system. lentiviral packaging system.
ViralBoost Reagent	VB100	A novel cocktail of small molecules that can enhance viral production.
Lentivirus Precipitation Solution	VC100	Concentrate Lentiviral particles up to 100 fold in 4 hours.
Virus Protection Medium	VF010	Preserve functional viral particles during repetitive freeze-thaw cycles.
NanoFect Transfection Reagent	NF 100	Nanotechnology-based reagent providing efficient gene delivery for most cell types.
Retroviral Packaging Mix	VP200	Produce high titers of replication-incompotent retroviruses.
Retrovirus Precipitation Solution	VC200	Concentrate retroviral particles up to 100 fold in 4 hours.

Applications:

TransPlus™ Virus Transduction Enhancer can increase the transduction rate of lentivirus or retrovirus up to 10 fold in most cells.

Documents:

Protocol:

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.

5. **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.

7. 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.

Product Specification Sheet

Certificate of Analysis

Publications: