

## Lentivirus / Retrovirus Concentration Solution (5X)

Cat. #: [P904C](#) FisherSci Cat.#: [NC3242189](#)

**Volume:** 100 ml, for processing 400 ml lentivirus / retrovirus supernatant ( 5 ml test sample is available.)

**Ship at** Ambient temperature      **Store at** 4°C      **Shelf Life:** 12 months

**Quality Control:** Each lot is tested for sterility and successfully concentrating Lentriviral / Retroviral particles.

### Product Description

Lentivirus Precipitation Solution 5X is a mixture of polymers optimized for the precipitation of lentiviral particles. It provides a simple, fast and highly efficient method for concentrating lentiviral particles. The protocol involves mixing your lentiviral supernatant with the Lentivirus Precipitation Solution, incubate for a short period, and spin the mixture in a standard centrifuge. It can increase the lentivirus titer by up to 100 folds as quick as in 4 hours and obtain excellent recoveries without ultracentrifugation. This solution is for research use only.

- **Efficient:** up to 100 folds titer increase
- **Rapid:** < 1-hour hands on
- **Easy:** No ultracentrifugation
- **Non-toxic:** safe for all cell lines, including ES cells

**Safety Precautions:** Follow the recommended NIH guidelines for all materials containing BSL-2 organisms.

### Protocol

1. Transfer the media containing Lentriviral / Retroviral particles from plates to a sterile vessel and centrifuge the medium at 300 x g for 10 minutes to remove cell debris.
2. Filter the supernatant through a 0.45 µm filter.
3. Transfer filtered supernatant to a sterile vessel and add 1 volume of cold Lentivirus / Retrovirus Concentration Solution (4° C) to every 4 volumes of lentivirus / retrovirus-containing supernatant. Example: 5 ml Lentivirus / Retrovirus Concentration Solution with 20 ml viral supernatant.
4. Mix well and refrigerate for 4 hours to overnight. Lentivirus / Retrovirus-containing supernatant mixed with Lentivirus / Retrovirus Concentration Solution are stable for up to 4 days at 4°C.
5. Centrifuge mixture at 1,500 x g for 30 minutes at 4°C. After centrifugation, the Lentriviral / Retroviral particles may appear as a beige or white pellet at the bottom of the vessel.
6. Discard supernatant. Spin down residual solution by centrifugation at 1,500 x g for 5 minutes. Remove all traces of fluid by aspiration, carefully, not to disturb the precipitated Lentriviral / Retroviral particles in pellet.
7. Resuspend Lentriviral / Retroviral pellets in 1/10 to 1/100 of original volume using cold, sterile PBS or DMEM at 4°C.
8. Aliquot in cryogenic vials and store at -80°C until ready for use. Done.

Related products: ( see [Virus Products](#) on web Page, or search by Cat. # )

#### Lentivirus

- [Lentivirus 10X Titer-Up](#) Cat.# P906, Cat.# at FisherSci.com: NC1792390
- 293T Transfection Reagent for Lentivirus Packaging
- Lentivirus Packaging Kit

#### Retrovirus

- [Retrovirus 10X Titer-Up](#) Cat.# P906, Cat.# at FisherSci.com: NC1692641
- 293T Transfection Reagent for Retrovirus Packaging
- Retrovirus Packaging Kit

For COVID-19 research	Cat. #	FisherSci.com #
SARS-CoV-2-S(GFP), 60 x lentivirus	CoV2-01	NC1813710
SARS-CoV-2-S(Luc), 60 x lentivirus	CoV2-02	NC1813717
SARS-CoV-S(GFP), 60 x lentivirus	CoV-01	NC1813720
SARS-CoV-S(Luc), 60 x lentivirus	CoV-02	NC1813721

#### HIV Reporter System

- HIV Rev-dependent Reporter Cells
- HIV Infectin™ Enhancer (enhance infection rate 5-20 folds)

#### Virus Transduction Enhancer

- Virus Transduction Enhancer, Cat. # PV100
- Virus Transduction Enhancer, Cat. # PV500
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#### Cell immortalization Kits

SV40T Antigen Cell immortalization Kit	SV40T
hTERT Cell immortalization Kit	hTERT
Virus Transduction Enhancer	PV100
Virus Transduction Enhancer	PV500