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## Lentivirus concentration solution

SKU: CC-0013

(For Research Use Only)

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### Introduction

Lentivirus Concentration Solution (SKU: CC-0013-50, CC-0013-100, CC-0013-200) offers a fast and simple method for concentrating lentiviral stocks. Simply mix your lentiviral supernatant with the concentration solution, incubate, and centrifuge using a standard laboratory centrifuge—no ultracentrifugation required. The protocol is flexible, accommodating both small and large volumes of supernatant. Designed for use with all lentiviral supernatants, it is especially compatible with the Signosis lentivirus system. This solution efficiently increases vector titers (IFU/mL) by 1–2 logs in a short time, with minimal loss of viral material.

### Product description

Lentivirus Concentration solution is a ready-to-use concentration solution for lentivirus particles.

### Storage and Handling

Store at 4°C, mix before use.

### Protocol

1. Harvest supernatant containing lentivirus from producing cell line and centrifuge at 500 ×g for 10 mins or filter through a 0.45 μm to remove cells and debris.
2. Aspirate the supernatant if you centrifuge the supernatant without disturbing the cell pellets and transfer into a sterile container, or collect the filtered supernatant directly.
3. It is then mixed with 1/3 volume of lentivirus concentration solution, mix by gentle inversion, incubate the mixture at 4°C for 4 hours to overnight depend on supernatant amount.
4. Centrifuge the mixture at 1500 ×g for 45 mins at 4°C. After centrifugation, white pellet will be visible on the bottom.
5. Carefully discard supernatant, avoiding disturbing the pellet, then gently resuspend the pellet with 1/10 or 1/100 of the original volume using complete growth media or PBS containing Ca<sup>2+</sup> and Mg<sup>2+</sup>.
6. Immediately use on target cells or store at -80°C in a single-use aliquots.