

## EZ-Lenti Concentrator (Cat. Con-10001-50, and Con-10001-200)

## Introduction

The EZ-Lenti Concentrator (Cat.LVC-10001) provides a fast and simple method for concentrating lentiviral packaging supernatant. Concentration is achieved by mixing a lentiviral supernatant with this concentration reagent, followed by a short incubation step and centrifugation in a standard centrifuge. The process is easy to scale up for larger supernatant volumes.

No ultracentrifugation is required. The concentration procedure can be completed in as short as 1 hour, or for convenience, longer incubation can be used. The concentration step increases virus titer (IFU/ml) by 10-100 with minimal loss of material.

## **Protocol**

- 1. Harvest lentiviral supernatant. Centrifuge at 500 g for 10 minutes to remove cell debris.
- 2. Collect the supernatant and filtered it through 0.45 µm CA or PES filter (optional).
- 3. Add one volume of 4xLV Concentration Solution to 3 volumes of virus-containing supernatant and incubate the mixture in ice water for 30 minutes to 2 hours depending on size of the container. Mix contents every 30 min.

**NOTE**: We have tested incubation times as short as 15 minutes and up to 1 week at 4°C with minimal losses observed. Since cooling of the sample is essential, larger volumes (>100 ml) may require longer incubation times.



- 4. Centrifuge at 3700 g for 30 minutes (or at 1,500 x g for 45 minutes) at 4°C.
- 5. After centrifugation, an off-white pellet will be visible. Descant supernatant slowly, centrifuge again for 2 minutes. Remove extra liquid using 200 µl long tip.
- 6. Add 300 µl of 1xPBS solution to resuspend the virus pellet.
- 7. Aliquot in small aliquots and store at -70 °C until use.