

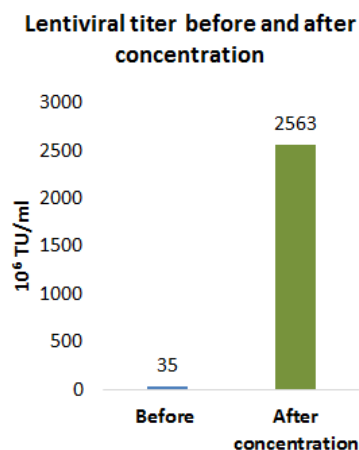
Lenti Concentrator

Description

The Lenti Concentrator is developed to concentrate lentiviral particles in a simple, quick and effective way. Just mix 4 volume of lentiviral supernatant with 1 volume of the Lentivirus Concentration Solution, incubate for a short time at 4°C, then spin the mixture in a standard centrifuge. You'll increase your lentivirus titer up to 100 fold in 2 hours.

Advantages

- Increase viral titer up to 100x
- Fast, as short as 2 hours
- No ultracentrifugation is required



Content and Storage

Component	Volume	Shipping Condition	Storage Condition
Lentivirus Concentrator (5x)	50 mL (cat# TR30025) or 200 mL (cat# TR30026)	Room template	4°C stable for 6 months

Protocol

- **Harvest lentiviral supernatant:** Collect the lentiviral supernatant, centrifuge at 500g for 10 min, then filter through 0.45 µm filter to remove any cell debris.
 Note: a. Peak lentivirus production is 48 hours post transfection.
 b. Use polyethersulfone (PES) low protein-binding filter. Do not use nitrocellulose filter as it binds to lentivirus.
- **Mix lentiviral supernatants with lenti concentration solution:** Transfer the lentiviral supernatants to 15 mL or 50 mL sterile conical centrifuge tubes depending on the volume; add 1 volume of cold Lenti Concentration Solution to every 4 volumes of lentiviral supernatant. Mix by gentle inversion. *Open the lenti concentrator inside the hood.
 Note: The volume of Lenti Concentrator to be added equals to the volume of lentiviral supernatant divided by 4, i.e. 2 mL Lentivirus concentrator to 8 mL lentiviral supernatants.
- **Incubation at 4°C or on ice:** Incubate the mixture at 4°C or on ice for 1.5 hrs to overnight.
 Note: a. Longer incubation may increase the recovery rate.
 b. The lentiviral particles in lenti concentrator are stable for at least one week at 4°C.

- **Centrifugation:** Centrifuge at 3,500g for 25 min at 4°C, remove the supernatant carefully.
Note: The lentiviral particles appear as white pellet at the bottom of the tube. Do not disturb the white pellet.
- **Re-centrifuge** at 3,500g for 5 min at 4°C, remove the trace supernatant carefully.
- **Re-suspend** the virus in cold, sterile PBS at 1/100 of the original sample volume by gently pipetting up and down.
- **Aliquot and store** at -80°C.

For Research Use Only, Not for use in diagnostic procedures.
