



Viral Applications

Viro-Peg Lentivirus Concentrator

Capture & concentrate lentiviral particles
without ultracentrifugation

Protocol

Viro-PEG Lentivirus Concentrator Quick Protocol

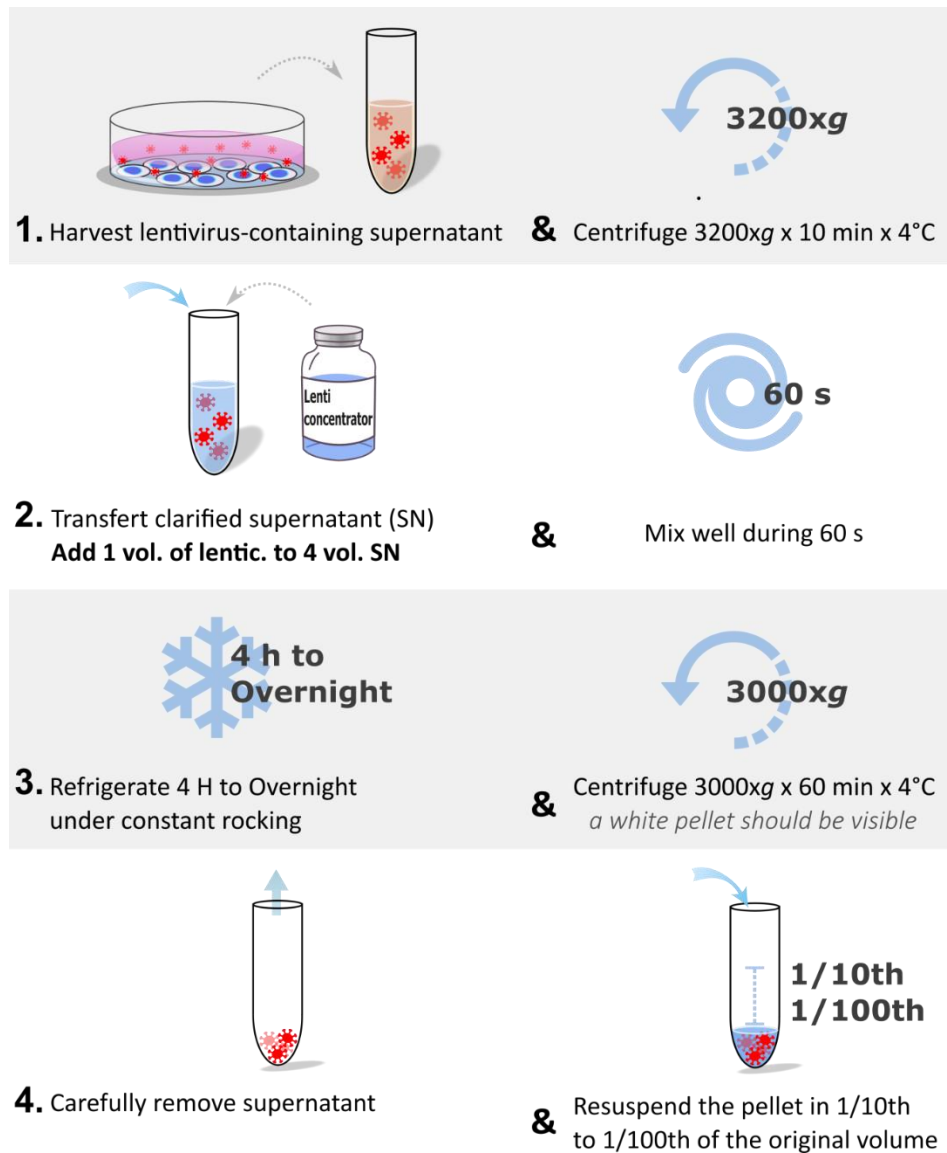


Figure 1: Rapid protocol for viral particles concentration using Viro-PEG Lentivirus Concentrator

IMPORTANT NOTES – Before you begin

- ✓ **Before each use, mix the Viro-PEG by inversion to homogenize the solution thoroughly**
- ✓ For high concentration virus, the resuspension volume should be limited between 1/10th and 1/100th of the original sample.
- ✓ Incubation time may vary from 30 min to overnight (ON) at 4°C (optimal ON x 4°C).
- ✓ Volume of Viro-PEG can be increased to 1/3rd of the original volume in case of low concentration efficiency.

For additional information and protocols, tips, troubleshooting or other applications

➔ www.ozbiosciences.com

Any questions?

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Viro-PEG Lentivirus Concentrator | Specifications

Package content	LVG100: 100mL of Viro-PEG Lentivirus Concentrator LVG500: 500 mL of Viro-PEG Lentivirus Concentrator
Shipping conditions	The product is shipped at RT.
Storage conditions	Upon reception, store the Viro-PEG Lentivirus Concentrator at 4°C.
Shelf life	1 year from the date of purchase when properly stored and handled.
Product description	Viro-PEG is a ready-to-use solution optimized for the capture and concentration of lentiviral particles.
Important notice	For research use only. Not for use in diagnostic procedures.

Protocol | For viral concentration

The following protocol is given for rapid viral particles concentration using Viro-PEG Lentivirus Concentrator.

- a. Harvest the lentivirus-containing supernatant and centrifuge at 3200xg x 10 min x 4°C to remove cell debris.

NOTE: Optionally, filter the supernatant through a 0.45 µm cellulose acetate or polyethersulfone (PES) low binding-protein filters.

- b. Transfer the centrifuged (or filtered) supernatant into sterile vessel and add 1 volume of cold Viro-PEG Lentivirus Concentrator to 4 volumes of lentivirus-containing supernatant. Refer to table 1 below.
- c. Mix well during 60 sec and refrigerate 4 hours to overnight under constant rocking.
- d. Spin down for 60 min at 3000xg x 4°C. After centrifugation a white pellet should be visible at the bottom of the vessel.
- e. Carefully remove supernatant.
- f. Briefly spin down residual supernatant by centrifugation 1500xg x 5 min x 4°C.
- g. Gently re-suspend the pellet in 1/10 to 1/100th of the original volume using complete medium or PBS.

Volume of viral suspension	Volume of Viro-PEG to add
1 mL	250 µL
5 mL	1.25 mL
10 mL	2.5 mL
50 mL	12.5 mL
100 mL	25 mL

Table 1: Volumes of Viro-PEG depending on initial viral suspension

Additional products for Viral Transduction Enhancement

- **LentiBlast Premium Transduction Enhancer**
Improve your transduction protocol for stem and CAR-T cell therapy.
- **ViroMag** for enhancing viral transduction efficiency (suitable for all viruses).
- **AdenoMag** specific for Adenoviral and AAV transduction.

Additional products for Virus Capture and Concentration

- **Mag4C-LV** – Magnetic virus concentration system, specific for Lentivirus.
- **Mag4C-AD** – Magnetic virus concentration system, specific for Adenoviruses.
- **Mag4C Conservation Buffer** – Preserve your virus infectivity during storage.

Purchaser Notification

Limited License

The purchase of the Viro-PEG Lentivirus Concentrator grants the purchaser a non-transferable, non-exclusive license to use the kit and/or its separate and included components (as listed in this protocol). This reagent is intended for in-house research only by the buyer. Such use is limited to the transfection of nucleic acids as described in the product manual. In addition, research only use means that this kit and all of its contents are excluded, without limitation, from resale, repackaging, or use for the making or selling of any commercial product or service without the written approval of OZ Biosciences. Separate licenses are available from OZ Biosciences for the express purpose of non-research use or applications of the Viro-PEG Lentivirus Concentrator. To inquire about such licenses, or to obtain authorization to transfer or use the enclosed material, contact us at OZ Biosciences. Buyers may end this License at any time by returning all Viro-PEG Lentivirus Concentrator reagents and documentation to OZ Biosciences, or by destroying all Viro-PEG Lentivirus Concentrator components. Purchasers are advised to contact OZ Biosciences with the notification that a Viro-PEG Lentivirus Concentrator is being returned in order to be reimbursed and/or to definitely terminate a license for internal research use only granted through the purchase of the kit(s). This document covers entirely the terms of the Viro-PEG Lentivirus Concentrator research only license, and does not grant any other express or implied license. The laws of the French Government shall govern the interpretation and enforcement of the terms of this License.

Product Use Limitations

Viro-PEG Lentivirus Concentrator and all of its components are developed, designed, intended, and sold for research use only. They are not to be used for human diagnostic or included/used in any drug intended for human use. All care and attention should be exercised in the use of the kit components by following proper research laboratory practices.

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