

## User Manual

# OriCell™ Virus Concentration and Purification Kit

Catalog No. VCPK-10001



## Introduction

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In scientific research, viruses are widely used as research tools or vectors. For example, lentiviruses can efficiently integrate exogenous genes into host chromosomes, enabling stable and long-term gene expression. During virus packaging or collection, the viral supernatant volume is often large, making it necessary to concentrate and purify the virus to obtain a high-titer preparation.

The OriCell™ Virus Concentration and Purification Kit offers a rapid and efficient alternative to traditional polymer-based precipitation methods by effectively enriching viral particles. Key advantages include safe and easy operation, minimal equipment requirements, and the ability to quickly produce high-titer virus preparations. This kit is suitable for concentrating and purifying common viruses such as lentivirus and adenovirus, as well as other related viral concentration applications.

**Note:** This product is only provided for further scientific research. It is not intended for diagnostic, therapeutic, clinical, household, or any other applications.

When citing our products in academic journals, please indicate “OriCell™ + Catalog Number, from Cyagen Biosciences (Guangzhou) Inc.”

## Product Information

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Components	Catalog Number	Volume
OriCell™ Virus Concentration and Purification Solution	VCPS-10001	100 mL
OriCell™ Virus Preservation Solution	VCPP-10001	5 mL

## Product Stability and Storage Conditions

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1. This product can be stably stored at 4°C for up to 12 months.
2. All components are sterile. Please maintain sterile conditions during use.
3. Please use the product within its shelf life, as expired components may significantly reduce extraction efficiency.

## Instructions

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1. Collect the cell culture supernatant from the virus packaging process.
2. Transfer the supernatant to a 50 mL centrifuge tube and centrifuge at 300×g, 4°C for 5 minutes to remove dead cells.
3. Collect the supernatant and transfer it to a 50 mL centrifuge tube, then centrifuge at 2000×g, 4°C for 10 minutes.
4. Collect the supernatant and transfer it to a new 50 mL centrifuge tube or other sterile container.
5. Prepare the OriCell™ Virus Concentration and Purification Kit. Before use, invert the product to mix well.
6. Add 0.25 volumes of the OriCell™ Virus Concentration and Purification Solution (Cat. No.: VCPS-10001) to the cell culture supernatant collected in step 4. Seal the tube tightly, invert and mix gently for 1 minute, then incubate overnight at 4°C (or for at least 12 hours).
7. Centrifuge the overnight tube at 3000×g, 4°C for 10 minutes.
8. Discard the supernatant and carefully remove residual liquid with a pipette. The pellet contains the concentrated virus.
9. Resuspend the pellet by pipetting up and down for 1 minute using the OriCell™ Virus Preservation Solution (Cat. No.: VCPP-10001).
10. After thorough resuspension, transfer the virus solution to a new 1.5 mL centrifuge tube or aliquot

according to experimental needs

11. Store the aliquoted virus at -80°C and avoid repeated freeze-thaw cycles.

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