Ver: 1409

Virus Purification Kit
（V1811）

Contents

Kit Contents

Catalog#	V1811-00	V1811-01	V1811-02
Centrifugal Filter*	2	10	20
15 mL Conical Tube	6	30	60
Buffer VB	8mL	40mL	80mL
100× Nuclease reaction buffer	100μL	400μL	800μL
Nuclease	15μL	70μL	140μL
Buffer VP	30 mL	200 mL	400 mL
Buffer VS	20 mL	100 mL	200 mL

Introduction

The ViraTrap™ virus mini purification kit is designed for fast and efficient purification of virus from cells and tissues. The viruses are first released from cells or tissues and then further purified and concentrated through a purification filter.

Storage and Stability

Store Buffer VS at 4°C. Store Nuclease and 100× Nuclease reaction buffer at -20°C. Other materials can be stored at room temperature (15-25℃). The guaranteed shelf life is 12 months from the date of production.

Before Starting

Familiar with each step by reading this manual and prepare all materials for the procedure.

Protocol

1. A: Tissue sample: Ground 1 g of tissue with liquid nitrogen and resuspend in 3 mL of Buffer VB Make sure there's no cell clumps remaining after resuspension. Proceed to step **3**.

2. B: Soluble sample: freeze and thaw the sample between 37℃ and dry ice plus ethanol three times. Spin at 8,000 rpm for 10 min. Transfer the supernatant to a new tube. further clarify the supernatant through a 0.45 μM filter unit. Proceed to step **4**.

3. Add **30 μL** of **100× Nuclease reaction buffer** and **5 μL** of **Nuclease**. Mix well by pipetting and incubate at 37°C for 30 minutes. Centrifuge at 600 x g for 15 minutes, transfer the supernatant to a clean tube, further clarify the supernatant through a 0.45 μM filter unit. Proceed to step 4.

4. Add 1 volume of **Buffer VP** to 3 volume of virus lysate (For example, add **0.75 mL** of **Buffer VP** to 2.25 mL of virus lysate). Mix well and incubate at 4℃ for at least 2 hours to overnight. The virus is stable in **Buffer VP**.

   Note: The supernatant can also be stored at -80℃ for future purification.

5. Centrifuge the sample at 3,000 rpm for 30 minutes. Carefully aspirate the supernatant. Spin briefly and remove the residual supernatant. The virus containing pellet should be visible. The virus pellet may appear hazy. Keep the virus on ice and proceed to step **6.**

6. Resuspend the pellet from step **5** with **4 mL** of **Buffer VS**. Dissolve the pellet by pipetting and spin the sample at 8,000 rpm at 4°C for 5 minutes; transfer the clear supernatant to a clean tube.

7. Load the clear lysate to a centrifugal filter and spin at 3,000 rpm for 10-15 minutes at 4℃ till 500 μL remains in the reservoir.

   Note: A swing bucket rotor is preferred. Fixed angle rotor requires higher speed of 7000 rpm for 15-20 minutes.

8. Transfer the virus stock from the centrifugal filter. Aliquot and store the purified virus at -80°C.

- **Typical concentration volume Vs. spin time (Swing bucket rotor, 3,000 rpm at RT, 4 mL starting volume) for 100K centrifugal filter device**

  Spin time-15 min: concentrate volume 176 μL
  Spin time-20 min: concentrate volume 76 μL
  Spin time-25 min: concentrate volume 58 μL

- **Typical concentration volume Vs. spin time (35° Fixed angle rotor , 7000 rpm RT, 4 mL starting volume) for 100K centrifugal filter device**

Spin time-10 min: concentrate volume 97 μL

Spin time-15 min: concentrate volume 54 μL

Spin time-20 min: concentrate volume 35 μL

Limited Use and Warranty

This product is intended for *in vitro* research use only. Not for use in human.

This product is warranted to perform as described in its labeling and in BEIWO's literature when used in accordance with instructions. No other warranties of any kind expressed or implied, including, without limitation, implied warranties of merchantability or fitness for a particular purpose, are provided by BEIWO. BEIWO's sole obligation and purchaser's exclusive remedy for breach of this warranty shall be, at the option of BEIWO, to replace the products, BEIWO shall have no liability for any direct, indirect, consequential, or incidental damage arising out of the use, the results of use, or the inability to use it product.

For technical support or learn more product information, please contact us or visit our website.

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