Biomiga Inc.

The Inventor of EZgene™ and ViraTrap™ Systems

V2001 Lentivirus Concentration Reagent

Contents

Kit Contents

Catalog#	V2001-00	V2001-01	V2001-02
Buffer LP	10 mL	100 mL	500 mL
Buffer LS	1 mL	10 mL	50 mL

Introduction

Traditionally the recombinant lentivirus is purified by ultracentrifugation to separate the virus particles from cellular proteins and media components. The ultracentrifugation procedure is time consuming and limited to the amount of cell lysate to be processed.

The Lentivirus Concentration Reagent is designed for fast and efficient concentration of recombinant lentiviruses from lentiviral-transfected cell culture supernatant. The virus can be concentrated 50 -100 folds. The recovery rate is around 60-70%.

Storage and Stability

The guaranteed shelf life is 12 months from the date of purchase. Store all components at room temperature (15-25℃).

Before Starting

Familiarize yourself with each step by reading this user manual and prepare all of the materials for the procedure.

Safety Information

The lentivirus infected cell media and the purified virus can be potential bio-hazardous material and can be infectious to human and animals. All protocols MUST be performed under at least Bio-Safety Level II working condition.

Protocol

1. Centrifuge the lentivirus-infected culture media at 3,000 rpm for 10 minutes at 4℃. Filter the supernatant through a 0.45 μm filter. Supernatant from 1-2 T75, up to 30 mL of supernatant, can be processed per prep.

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

2. Add **1 volume** of **Buffer LP** to **3 volume** of virus supernatant (For example, add 5 mL of Buffer LP to 15 mL of virus supernatant). Mix well and incubate at 4°C for at least 4 hours to overnight. The virus is stable in **Buffer LP**.

3. Centrifuge the sample at 3,000 rpm for 30 minutes at 4°C. Carefully aspirate the supernatant. Spin briefly and remove the residual supernatant. The virus containing pellet should be visible. The pellet may appear hazy. Keep the virus on ice and proceed to step 4.

4. Resuspend the pellet with **300–500 μL Buffer LS**. Dissolve the pellet by pipetting. Transfer the pellet to a clean vial and spin at 8,000 rpm for 2 min at 4°C.

5. Transfer the supernatant to a clean vial. Aliquot and store the purified virus at -80°C.

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 BIOMIGA'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 BIOMIGA. BIOMIGA's sole obligation and purchaser's exclusive remedy for breach of this warranty shall be, at the option of BIOMIGA, to replace the products, BIOMIGA 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 at 858-603-3219 or visit our website at www.biomiga.com