

Lentivirus Concentration Reagent

Cat. #: M0041 Size: 50 ml

Introduction

Lentivirus Concentration Reagent (5×) is designed 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 Reagent, 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.

Package Information

Components	M0041
Lentivirus Concentration Reagent (5×)	50 ml

Storage

Store at room temperature

Protocols

1. 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 lentivirus.

2. Transfer the lentiviral supernatants to 15 ml or 50 ml sterile conical centrifuge tubes depending on the volume; add 1 volume of cold Lentivirus Concentration Reagent to every 4 volumes of lentiviral supernatant. Mix by gentle inversion.

Note: Open the Lentivirus Concentration Reagent inside the hood. The volume of Lentivirus Concentration Reagent to be added equals to the volume of lentiviral supernatant divided by 4, i.e. 5 ml Lentivirus Concentration Reagent to 20 ml lentiviral supernatants.

3. Incubate the mixture at 4°C or on ice for 1.5 hrs.

4. Centrifuge at 3,500 g 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.

5. Re-centrifuge at 3,500g for 5 min at 4°C, remove the trace supernatant carefully.

6. Re-suspend the virus in cold, sterile Lentivirus Storage Buffer (Cat # M0060) at 1/100 of the original sample volume by gently pipetting up and down.

7. Aliquot and store at -80°C