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ABP Lentivirus Concentration Reagent (5X)

Catalog Number: D021

Content and Storage

Component	Volume	Shipping Condition	Storage Condition
ABP Lentivirus Concentration Reagent (5X)	50 mL	Room temperature	4°C stable for one year

Description

ABP Lentivirus Concentration Reagent 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 4ºC, then spin the mixture in a standard centrifuge. You'll increase your lentivirus titer up to 100 fold in 2 hours.

Advantages

- Increase viral titer up to 100X
- Fast, as short as 2 hours
- No ultracentrifugation is required

Protocol

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 ABP Lentivirus Concentration Reagent to every 4 volumes of lentiviral supernatant. Mix by gentle inversion.

   Note: Open the ABP Lentivirus Concentration Reagent inside the hood. The volume of ABP Lentivirus Concentration Reagent to be added equals to the volume of lentivral supernatant divided by 4, i.e. 5 mL ABP 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 3,500g 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 #D022) at 1/100 of the original sample volume by gently pipetting up and down.
7. Aliquot and store at -80°C.