

Lentiviral Packaging Mix Protocol

Catalogue number: VP100

Product Descriptions

Lentiviral Packaging Mix is a ready-to-use third generation HIV-based lentiviral packaging system in which the plasmids express the elements required for lentiviral production. To produce high quality lentiviral particles, all you need is a lentiviral expression vector containing your gene of interest. Lentiviral Packaging Mix contains the essential packaging vectors containing the viral structure proteins and the envelope vector to express the Vesicular Stomatitis Virus glycoprotein (VSVG). The lentiviral packaging mix is TAT-independent because it only supports lentiviral expression vector with a chimeric 5' LTR, in which the HIV promoter is replaced with CMV or RSV.

Protocol

1. Transfer the media containing lentiviral particles from plates to a sterile vessel and centrifuge the medium at 300 x g for 10 min to remove cell debris.
2. Filter the supernatant through 0.45µm filter.
3. Transfer filtered supernatant to a sterile vessel and add 1 volume of cold Lentivirus Precipitation Solution (4°C) to every 4 volumes of lentivirus-containing supernatant. (Example: 5ml Lentivirus Precipitation Solution with 20ml viral supernatant).
4. Mix well and refrigerate 3hrs to overnight. Lentivirus-containing supernatant mixed with Lentivirus Precipitation Solution are stable for up to 4 days at 4°C..
5. Centrifuge mixture at 1500 × g for 30 minutes at 4°C. After centrifugation, the lentiviral particles may appear as a beige or white pellet at the bottom of the vessel.
6. Discard supernatant. Spin down residual solution by centrifugation at 1500 × g for 5 minutes. Remove all traces of fluid by aspiration, taking great care not to disturb the precipitated lentiviral particles in pellet.
7. Resuspend lentiviral pellets in 1/10 to 1/100 of original volume using cold, sterile PBS or DMEM at 4°C.
8. Aliquot in cryogenic vials and store at -80°C until ready for use.



Related Products

Products	Catalogue number	Description
ViralBoost Reagent	VB100	A novel cocktail of small molecules that can enhance viral production.
Virus Protection Medium	VF010	Preserve functional viral particles during repetitive freeze-thaw cycles.
TransPlus™ Virus Transduction Enhancer	V020	Mixture of polymers optimized for the infection of lentivirus or retrovirus to most cells.
NanoFect Transfection Reagent	NF 100	Nanotechnology-based reagent providing efficient gene delivery for most cell types.
Lentivirus Precipitation Solution	VC100	Concentrate Lentiviral particles up to 100 fold in 4 hours.
Lentiviral Expression Vectors	LV series	Various lentiviral expression vectors for your research needs.
Lentiviral Reporter Plasmids	LV series	Various lentiviral reporter vectors for your research needs.

