



Applied Biological Materials Inc.
Tel: 1-866-757-2414
Email: info@abmGood.com
Website: www.abmGood.com

IMPORTANT CONSIDERATIONS

For Ready-to-use Lentiviral Particles

Storage Conditions

Store viral particles at -80°C for long term storage (stable for at least 1 year).

Thawing Lentivirus

Before use, thaw the lentivirus vial on ice (~4°C) then removed from ice to allow virus to equilibrate to room temperature, or thaw in a 37°C water bath. Once thawed, virus is ready for downstream applications and should be used as soon as possible to avoid degradation. We recommend making aliquots on ice to prevent multiple freeze-thaw cycles as each cycle will result in titer reduction.

Diluting Lentivirus

If dilutions need to be made, allow culture medium to equilibrate to room temperature before performing dilutions to prevent heat-shock.

Infecting Target Cells and Multiplicity of Infection (MOI)

Optimal MOI will vary depending on the target cell line. We recommend infecting your target cells with a reporter lentivirus (i.e. Lenti-GFP or Lenti-Luc) in your preliminary study to determine the optimal MOI. To increase the infectivity, perform the viral infection in the presence of polybrene (**abm** Cat. No. G062) at 8 µg/ml and/or ViralPlus (**abm** Cat. No. G698) at 1:100 dilution.

Refer to the Certificate of Analysis provided for the viral titer, and use the formula below to calculate the volume needed for the desired MOI.

$$\text{MOI} = \frac{\text{Product Titer (IU/ml)} \times \text{Virus Volume (ml)}}{\text{Total Cell Number}}$$

For example, to achieve a MOI of 10 with a 1×10^6 IU/ml titer virus on 1×10^5 cells, use 1.0 ml of the virus.