DNA Transfection Reagent

FuGENE® 4K

Lentiviral Packaging

HIGHLIGHTS

- Best Reagent for Suspension or Adherent Cells
- Seamlessly Integrates Into your Protocol
- Storage at Room Temperature

FuGENE® 4K is the best product on the market for lentivirus production. Whether you are using suspension or adherent cells, this reagent consistently delivers high titer, maximizing your transduction potential. 4K integrates into existing systems seamlessly with little to no optimization, working under a broad range of conditions with a variety of commonly used cell culture medias. Additionally, 4K is room temperature stable for long term storage, which further adds to its flexibility making it the clear choice for your production needs.

Fig. 1.

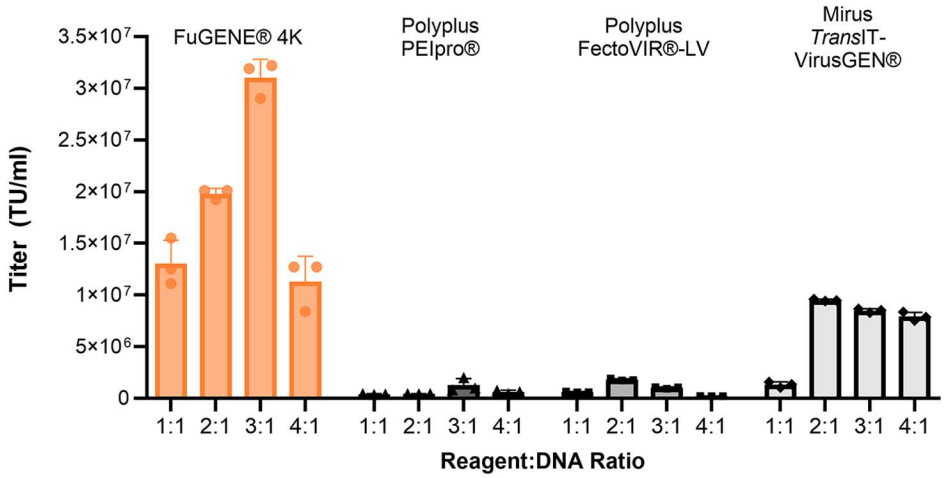

Fig. 2.

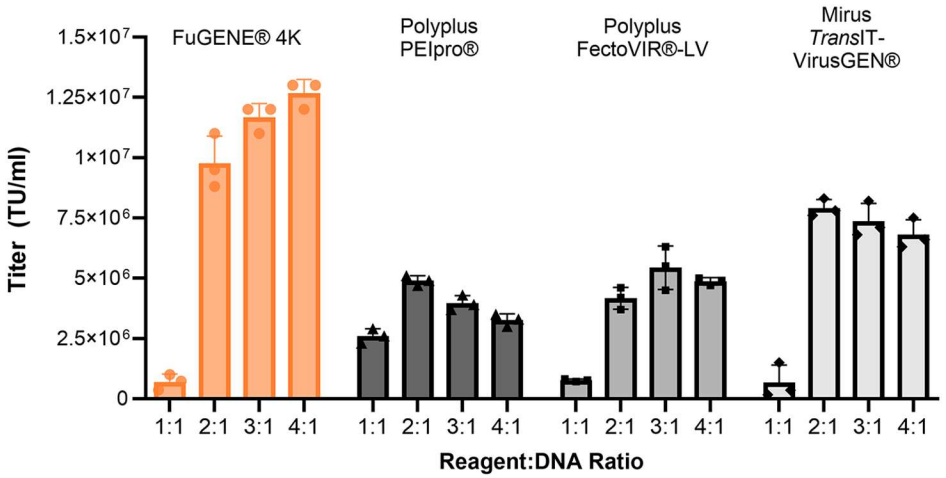

Fig. 1. Using Suspension Adapted 293Ts for Lentiviral Production: Suspension 293T cells were maintained in Freestyle™ and seeded at 2x10^6 cells per ml on the day of transfection. Cells were transfected with lentiviral plasmids (GFP transfer vector, Gag-Pol, VSV-G, Rev) at a molar ratio of 4:3:1.4:1. Transfections were performed using the indicated transfection reagent at the indicated reagent-to-DNA ratio based on manufacturers' recommendations. Transfection-DNA complexation was carried out at room temperature for 15. Viral supernatant was harvested at 72 hours post-transfection and titers (TU/ml) were determined by transducing HT1080 cells and measuring GFP expression via flow cytometry at 72 hours post-transduction.

Fig. 2. Adherent 293T cells were transfected with third-generation lentiviral plasmids (GFP transfer vector, Gag-Pol, VSV-G, Rev) at a molar ratio of 4:3:1.4:1 and 0.3 µg of DNA per cm². Transfections were performed at the indicated ratios of reagent (µl) to DNA (µg). Viral supernatant was harvested, 0.45 µm filtered, and titers (TU/ml) were determined by transducing HT1080 cells and measuring GFP expression by flow cytometry at 72 hours post-transduction.

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