



## 293TLV Lentiviral Packaging Cell Line Manual

Catalog Number	Amount	Storage
TLV-C	1 vial of cells ( $2 \times 10^6$ cells) in 80% DMEM, 10% FBS, 10% DMSO	Liquid nitrogen

### Product Description

The 293 cell line is a permanent line established from primary human embryonal kidney transformed with sheared human adenovirus type 5 DNA. The expressed E1A adenovirus gene allows these cells to produce very high levels of protein. 293TLV cells were transformed from the 293 cell line. They have been transduced with SV40 large T antigen expression lentivirus under the CMV promoter and stably express the SV40 large T antigen gene.

SV40 large T antigen increases lentivirus production upon co-transfection of the packaging plasmid with a lentiviral vector embedded with an SV40 origin. This is an ideal lentiviral packaging cell line, demonstrating high levels of lentivirus production.

### Culture procedures

1. Thaw the frozen vial of cells quickly in a 37 °C water bath (1-3min); decontaminate the outside of the vial with 70% ethanol.
2. Transfer the entire contents of the cryovial into a T-75 cm<sup>2</sup> flask containing 15 ml of pre-warmed complete medium. Incubate the cells overnight in a 37 °C incubator, 5% CO<sub>2</sub>.
3. The following day, replace the medium with 15 ml of pre-warmed, complete medium (Optional: add 10 µg/ml blasticidin to medium).
4. Incubate the cells and monitor cell density.
5. Pass cells (1:10 dilution) when the culture reaches 80-90% confluent.
6. Freeze cells at a density of  $3 \times 10^6$  cells/ml using 90% complete medium with 10% DMSO.

### Complete medium

D-MEM (high glucose with sodium pyruvate)  
4mM L-glutamine  
10% Fetal Bovine Serum (FBS)



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0.1 mM MEM Non-Essential Amino Acids (NEAA)  
1% Pen-strep (optional)

### Quality Control

Each vial contains  $>2 \times 10^6$  cells with  $>95\%$  viability before freeze. Cells are validated to be free of bacteria, viruses, and mycoplasma.

### Warranty

This product is warranted to perform as described when used in accordance with this manual. GenTarget's sole remedy for breach of warranty should be, at the option of GenTarget, to repair or replace the product. **This product is for research use only.**