



293TLV lentiviral packaging cell line manual

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

Product Description

The 293 Cell Line is a permanent line established from primary embryonal human 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 cell is transformed from the 293 cell line and stably expresses SV40 large T antigen gene. It is established by transduction of SV40 large T antigen expression lentivirus under CMV promoter.

293TLV cell stably expresses the SV40 large T antigen which increases Lentivirus production upon co-transfected packaging plasmid with lentiviral vector that embedded a SV40 origin. It demonstrated high levels of lentivirus production and is ideal lentiviral packaging cell line.

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 cm² flask containing 15 ml of pre-warmed complete medium. Incubate the cells overnight in a 37°C incubator, 5% CO₂.
3. The following day, replace the medium with 15 ml of prewarmed, complete medium (Optional: add 10 µg/ml blasticidin in 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 3×10^6 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)
0.1 mM MEM Non-Essential Amino Acids (NEAA)
1% Pen-strep (optinal)

Quality Control

Each vial contains greater than 2×10^6 cells with >95% viability before freeze. Cells are tested free of bacteria, viruses, 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.