



## LacZ stable cell line manual

Catalog Number	Amount	Storage
SC003	1 vial of cells (2 x 10 <sup>6</sup> 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. LacZ stable cell is transformed from the 293 cell line and stably expresses full length -Galactosidase (lacZ) gene. It is established by transduction of lacZ expression lentivirus. LacZ is constitutively expressed in high-level under [suCMV promoter](#) with N-terminal His tag. A RFP-blasticidin fusion gene is expressed under RSV promoter for selecting or sorting the stable cells.

### 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 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 x 10<sup>6</sup> cells/ml using 90% complete medium with 10% DMSO.

### Complete medium

D-MEM (high glucose)  
2mM 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 x 10<sup>6</sup> 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.**