Data Sheet • 293Ta Lentiviral Packaging Cell Line • Catalog No. LT008

Description

293Ta packaging cells for lentivirus production using optimized packaging plasmids with lentiviral vector-based constructs.

Contents: 1 ml of 293Ta lentiviral packaging cells ($2x10^6$cells/ml). Low passage and authenticated.
Cell contains: Adeno and SV-40 viral DNA sequences
Growth properties: Adherent
Organism: Homo sapiens (human)
Source organ: Kidney
Morphology: Epithelial

Growth medium: DMEM supplemented with 10% fetal bovine serum and Penicillin/Streptomycin
Temperature: 37.0°C

Thawing and Plating 293Ta Cells

1. Remove the vial from liquid nitrogen freezer and immediately place it into a 37°C water bath. Remove the vial before the last bit of ice disappears to avoid overheating the cells. Wipe the vial with 70%ethanol.
2. Transfer thawed cells to a sterile 15ml or 50ml tube containing ~10 ml of complete growth medium (either cold or room temperature). Gently swirl the tube to mix.
3. Spin the cell suspension for 5 minutes at 300xg.
4. Carefully discard supernatant as completely as possible.
5. Tap the tube gently to dislodge and loosen the cell pellet.
6. Add ~10 ml of complete growth medium, and swirl the tube to suspend the cells.
7. Transfer the cell suspension to a 10cm culture dish or other appropriate culture vessel. The culture dish or vessel must be plasma tissue-culture treated.

   Important Note: The 293Ta packaging cells attach slowly after recovery from liquid nitrogen. It is normal to see round cells the next day after thawing the cells. They will attach well in 3~4 days. The growth rate is also slow the first week after thawing the cells. After one passage, the doubling time will be around 20~24 hours.

Passaging

1. Discard culture medium.
2. Briefly rinse the cell layer with PBS.
3. Add 0.05% trypsin-EDTA solution to dish (just enough to cover the bottom of dish) and observe cells under an inverted microscope until the cell layer is dispersed.
4. Add >3× volume of complete growth medium (For example, add 9 ml or more of complete growth medium if 3 ml of trypsin-EDTA solution is used in step 3). Aspirate cells by gentle pipetting.
5. Transfer appropriate aliquots of the cell suspension to new culture vessels.
6. Incubate cells at 37°C with 5%CO_2.

Subcultivation ratio: Subcultivation ratio of 1:4 to 1:8 is recommended
Medium renewal: Every 2 to 3 days
Freeze medium: Complete growth medium supplemented with 8% (v/v) DMSO
Storage temperature: Liquid nitrogen vapor phase

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