Product Instruction

293 Cell Serum-free Medium

Product Type: Celer-S001

Product Description

Celer-S001 is developed by Shanghai BioEngine Sci-Tech Co., Ltd., which is protein-free and animal origin component-free 293 cell serum-free medium. It is suitable for suspension culture of 293 cells (human embryonic kidney cells) and production of adenovirus.

Storage

- 2–8°C;
- Store dark and dry

Shelf life

- Shelf Life is 6 months from Date of Manufacture.

Application

Subculture

- Determine viable cell density before cell passage, we recommend cell viability should be above 90% for passage.
- Take the cells in exponential growth period, inoculate them in a shaker flask at an initial density of about 1.0×10^6 cells/ml.
- Incubate the cells in a 37℃ incubator with 5% CO_2 on an orbital shaker with 110-130 rpm.
- Passage every 48 hours.

Cryopreservation

- Choose cells cultured in good growth profile for Cryopreservation, Freeze cells at a final density of 2.0×10^7-3.0×10^7 viable cells/mL.
- Use a freezing medium composed of 93% fresh medium and 7% DMSO.
- Centrifuge the cells at 175 g for 5min, then discard the supernatant, and resuspend with the

mixed cryopreservation solution. 1 ml/vial is sub packaged into a freezing tube.

- Put freezing tubes in a program cooling box at -80℃ overnight, and transfer it to liquid nitrogen for storage.

Thaw

- Rapidly thaw (1–2 minutes) a frozen vial cells in a 37°C water bath.
- Add 10 ml fresh medium into the centrifuge tube, transfer the entire cells of the freezing tube into the centrifuge tube, centrifuge 175g for 5min, and wash off DMSO.
- Use fresh medium to resuspend cells in a shake flask at an inoculation density of 0.8-1.1×10^6 cells/ml.

Infection

- Take the cells in exponential growth period, inoculate them in a shaker flask at an initial density of about 1.0×10^6 cells/ml, and culture for 2-3 Days.
- Dilute the cell density to about 2×10^6 cells/ml with fresh medium before infection.
- Take the virus seed strains from -80℃， rapidly thaw in a 37℃ water bath.
- Inoculate the virus seed with MOI of 1.0 into cell culture suspension.
- Culture for 3 Days then harvest.