

HEK293 Serum-Free Basal Medium

Cat. No.: SF1001

Size: 500mL

Applicable cell lines

HEK293 serum-free Basal medium is an Animal Derived Component-Free (ADCF) cell culture medium, which is independently developed and produced by the Procell's R&D team. It can support rapid cell adaptation in a variety of 293 cell lines (such as 293, 293T, 293A and other 293 cells), and has the characteristics of high cell viability, long maintenance time, high transfection efficiency and high yield.

Medium characteristics

1. This product is Animal-Derived Component-Free, ADCF.
2. This product contains amino acids, vitamins, glucose, lipids, inorganic salts, growth factors, hydrolysates and trace elements, and does not contain peptides.

Culture conditions

1. The culture temperature is 37°C, and the recommended initial cell seeding density is $0.5-1 \times 10^6$ cells/mL in batch and fed-batch culture process.
2. Under the condition of non-automatic pH control, it is recommended to control the CO₂ concentration at 5%.
3. Process conditions such as pH, DO and temperature can be set according to process development results or platform process parameters.

HEK293 Cells adaptation to Serum-Free Medium

1. Direct adaptation: In the initial culture stage, the cells are recommended to be inoculated at the density of $0.5-1 \times 10^6$ cells/mL, and the original medium is directly replaced with HEK293 serum-free basal medium for cell culture. After the cells have been cultured for 2-3 generations and the cell growth is stable, subsequent experiments could be carried out.
2. Indirect adaptation: HEK293 serum-free basal medium and cell original medium are mixed in a ratio of (75:25, 50:50, 25:75, 0:100) for gradual passage. It is recommended that each mixed ratio could passage for 2-3 generations, which can be adjusted according to cell growth status; When the medium was completely replaced with HEK293 serum-free basal medium, passages are continued for 3 to 5 times until the cell growth is stable for subsequent experiments. (Note: The specific passages should adjust according to the actual cell state)

Cryopreserve cells

Use the freezing medium made from this product for cell freezing, it is recommended to add 10% DMSO, and the cell freezing density is $1.0-2.0 \times 10^7$ cells/mL.

Storage

Store in 2-8°C; protect from light.

Shelf life: 12 months

Notes

1. This product is only used for scientific research or further research, not for diagnosis and treatment.
2. This product is sterilized by 0.1 µm filtration.
3. It is necessary to pay attention to the aseptic operation and avoid the contamination.