

CHO Serum-Free Basal Medium

Cat. No.: SF2001

Size: 500mL

Applicable cell lines

CHO serum-free basal medium is a fully chemically defined (CD) basal medium that does not contain hydrolysates, proteins, growth factors, or any animal-derived components. It is suitable for high-density suspension culture of different subtypes of Chinese hamster ovary cells (CHO-K1, CHODG44, CHOZN, etc.). With high-performance feed (CHO serum-free feed A, CHO serum-free feed B) medium, it can support high-density cell growth and viability maintenance, and achieve higher levels of protein/antibody expression and quality.

Medium characteristics

1. Chemically-Defined, CD.
2. Free of hydrolysates, proteins, growth factors or ingredients of any animal origin.
3. Free of HT and L-glutamine.

Culture conditions

1. The culture temperature is 37°C, and the recommended initial cell seeding density is 0.8-1.2×10⁶ 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.

Cells medium adaptation

1. Direct adaptation: In the initial culture stage, the cells are recommended to be inoculated at the density of 0.5-1×10⁶ cells/mL, and the original medium is directly replaced with CHO 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: CHO 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 CHO serum-free basal medium, passages are continued for 3 to 5 times until the cell growth is stable for subsequent experiments.

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 1.0-2.0×10⁷ 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.