Optimization
Makes Differences

StarCHO Feed

Chemically Defined High Performance Feed

—— For Biomanufacturing

StarCHO Feed is a chemically-defined high performance feed designed for high density suspension culture of Chinese Hamster Ovary (CHO) cell lines (e.g. CHO-K1, CHO-DG44, CHO-S, CHOZN). It is free of any animal-origin components, and contains no hydrolysates or components of unknown composition. This feed supports high level expression of recombinant proteins and therapeutic antibodies. In conjunction with OPM's basal media StarCHO and highly concentrated feeds, higher growth & viability, and higher expression level of the target molecule can be achieved.

Application

StarCHO Feed is intended for large scale manufacturing of therapeutic biomolecules, as well as for research purposes, but not for human or any therapeutic use.

Storage & Transportation

Store at 2~8℃, dark and dry

Ship at Room temperature (Liquid), Blue ice (Dry powder)

Shelf Life

StarCHO Feed Liquid: 12 months

StarCHO Feed Powder: 24 months

Cell Culture Conditions

37℃, 80% humidity, 5~8%CO_2

Shaker speed 110–150 rpm (amplitude: 50mm).

Reconstitution Method for Dry Powder

1.Take a clean preparation container. It is recommended that the one-time preparation volume should not be less than 1L.

2.Take 80% of the final prepared volume of ultra-pure water or WFI, the temperature is 25℃ to 35℃.

3.Add 170.54g/L dry powder medium slowly to water, avoiding formation of clumps. Keep stirring for 20minutes.

4.Add 5N NaOH slowly to increase pH to 7.0. Keep stirring for 30 minutes. Solution will be clear.

5.Adjust to the final volume with ultra-pure water or WFI, keep stirring for 10 minutes.

6.Sterilize immediately by membrane filtration.

7.Store the reconstitution media at 2℃ to 8℃ and dark.

Recommended Feeding Strategy

Time line	Instruction	Feeding Strategy
Day 0	Seed cells into OPM's basal media at a density of 0.5×10^6 ~1.5×10^6 viable cells/ml.	—

Day 2-4	Add high performance feed **StarCHO Feed** and the highly concentrated feed **CDFS36** when the cell density has reached 4.0×10^6 ~ 6.0×10^6 cells/ml.	**StarCHO Feed**: 3~6% of initial culture volume; **CDFS36**: 0.3%~0.6% of initial culture volume;
Day 4-14/16	Add high performance feed **StarCHO Feed** and the highly concentrated feed **CDFS36** every other day until the end of the culture.	**StarCHO Feed**: 3~6% of initial culture volume; **CDFS36** 0.3%~0.6% of initial culture volume;

Order Information

High Performance Feeds

Name	Cat No.	Type	Volume
StarCHO Feed DPM	P224028	Dry powder	10L
StarCHO Feed	P223635	Liquid	1000ml

Cell Culture Media

Name	Cat No.	Type	Volume
StarCHO DPM	P226718	Dry powder	10L/50L/100L
StarCHO Medium	P225082	Liquid	1000ml

Highly Concentrated Feeds

Name	Cat No.	Type	Volume
CDFS36	C217836	Liquid	500ml / 1000ml
CDFS36 DPM	C672069	Dry powder	1L / 2L /5L / 10L / 50L / 100L

Cell Culture Supplements

Name	Cat No.	Type	Volume
OPM GAL+V2 Galatosylation enhancer	S81912	Liquid	100ml / 1000ml
OPM-ACA Anti-clumping agent	S0907001	Liquid	100ml / 500ml / 1000ml

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