



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°C, 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°C, 80% humidity, 5~8%CO₂
Shaker speed 110-150 rpm (amplitude: 50mm).

Reconstitution Method for Dry Powder

1. Measure out 90% of final required volume of purified water intended for cell culture use, e.g. WFI.
Recommended water temperature is 25~35°C (minimum final volume \geq 1L).
2. Slowly add dry powder medium at 170.54 g/L while stirring, and continue mixing for 20 minutes.
Residual powder attached to the vessel wall should be taken into the solution.
3. Adjust pH to 7.0 with 5N NaOH and stir for 30 minutes until completely dissolved.
4. Add cell culture grade purified water to 100% final volume. Continue to stir for 10 minutes.
Measurement of pH and osmolality.
5. Sterile filter using a membrane filter with a pore size of 0.22 micron.

Recommended Feeding Strategy

Time line	Instruction	Feeding Strategy
Day 0	Seed cells into OPM's basal media at a density of $0.5 \times 10^6 \sim 1.5 \times 10^6$ viable cells/ml.	—
Day 2-4	Add high performance feed StarCHO Feed and the highly concentrated feed CDFS36 when the cell density has reached $4.0 \times 10^6 \sim 6.0 \times 10^6$ 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;
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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