

AltairCHO® Feed Plus

Chemically Defined High Performance Feed

— For Biomanufacturing

AltairCHO® Feed Plus 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). It is free of any animal-origin components, and contains no hydrolysates, growth factors or components of unknown composition. This feed supports high level expression of recombinant proteins and therapeutic antibodies. In conjunction with OPM's basal media and highly concentrated feeds, higher growth & viability, and higher expression level of the target molecule can be achieved.

Application

AltairCHO® Feed Plus 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

AltairCHO® Feed Plus Liquid: 12 months

AltairCHO® Feed Plus Powder: 24 months

Reconstitution Method for Dry Powder

1. Fill a clean mixing vessel to 80% of the final volume with high quality purified water, such as WFI at ambient temperature (25°C to 35°C). Start mixing. For example, to prepare 1 liter of growth medium, start with 800 mL of water.
2. Add AltairCHO Feed Plus DPM at 134.0g/L slowly to the vessel, avoiding formation of clumps. Keep stirring for 20 minutes.
3. Add 5N NaOH slowly to increase pH to 6.8. Keep stirring for 30 minutes. Solution will be clear.
4. Adjust to the final volume with high quality purified water, such as WFI and keep stirring for 10 minutes.
5. Sterilize immediately by membrane filtration.
6. Label as "AltairCHO Feed Plus Medium".
7. Store media at 2°C to 8°C with protection from light.

Cell Culture Conditions

37°C, 80% humidity, 5~8%CO₂

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

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 AltairCHO® Feed Plus 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. | AltairCHO® Feed Plus: 3~6% of initial culture volume; CDFS36: 0.3%~0.6% of initial culture volume; |
| Day 4-14/16 | Add AltairCHO® Feed Plus feed and the highly concentrated feed CDFS36 every other day until the end of the culture. | AltairCHO® Feed Plus: 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 |
|--------------------------|---------|------------|---------------|
| AltairCHO® Feed Plus DPM | P225808 | Dry powder | 10L/50L |
| AltairCHO® Feed Plus | P226220 | Liquid | 500mL /1000mL |

Cell Culture Media

| Name | Cat No. | Type | Volume |
|-------------------|---------|------------|------------------|
| AltairCHO® Medium | C673017 | Liquid | 1000mL |
| AltairCHO® DPM | C670226 | Dry powder | 10L / 50L / 100L |

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 Galatossylation enhancer | S81912 | Liquid | 100mL / 1000mL |
| OPM-ACA Anti-clumping agent | S0907001 | Liquid | 100mL / 500mL / 1000mL |

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