

# AltairCHO Feed

Chemically Defined High Performance Feed

— For Biomanufacturing



**AltairCHO 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). 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 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 Liquid: 12 months  
AltairCHO Feed 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 AltairCHO Feed, starts with 800 mL of water.
- 2.Add AltairCHO™ Feed DPM at 125.62 g/L slowly to the vessel, avoiding formation of clumps. Keep stirring for 10 minutes. The solution will remain cloudy at this step, but should be clear after pH adjust in next steps.
- 3.Adjust pH to 7.0 using 5N NaOH. Continue mixing for 30 minutes. Solution will be clear.
- 4.Adjust to the final volume with high quality purified water, such as WFI. Mix for an additional 10 minutes.
- 5.Measure final pH and osmolality.
- 6.Sterilize immediately by membrane filtration.
- 7.Label as "AltairCHO Feed"
- 8.Store the reconstituted supplement at 2°C to 8°C with protection from light.

## Quality Specifications

Specifications	AltairCHO Feed Medium	AltairCHO Feed DPM
Appearance	Orange red clear liquid	Off -white or light yellow powder
pH	6.8~7.5	6.8~7.5
Osmolality (mOsm/kg)	1000~1300	1000~1300
Solubility	---	Good by following the reconstitution instructions
Endotoxin (EU/mL)	<2.0	<2.0

Sterility test	Negative	---
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### Cell Culture Conditions

37°C, 80% humidity, 5~8%CO<sub>2</sub>

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

### Recommended Feeding Strategy

Time line	Instruction	Feeding Strategy
Day 1	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 feed and the highly concentrated feed when the cell density has reached $4.0 \times 10^6 \sim 6.0 \times 10^6$ cells/mL.	<b>AltairCHO Feed:</b> 3~6% of initial culture volume; <b>Highly Concentrated Feed:</b> 0.3%~0.6% of initial culture volume;
Day 4-14/16	Add AltairCHO Feed feed and the highly concentrated feed every other day until the end of the culture.	<b>AltairCHO Feed:</b> 3~6% of initial culture volume; <b>Highly Concentrated Feed:</b> 0.3%~0.6% of initial culture volume;

## Order Information

### High Performance Feeds

Name	Cat No.	Type	Volume
AltairCHO Feed	C675219	Liquid	500ml /1000ml
AltairCHO Feed DPM	C679332	Dry powder	10L/50L

### Cell Culture Media

Name	Cat No.	Type	Volume
VegaCHO™ Medium	P121662	Liquid	1000mL
VegaCHO™ DPM	P106390	Dry powder	10L/50L/100L
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 Galatosylation enhancer	S81912	Liquid	100mL / 1000mL
OPM-ACA Anti-clumping agent	S0907001	Liquid	100mL / 500mL / 1000mL



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