

# OPM-CHO CDF18

## Chemically Defined High Performance Feed

— For Biomanufacturing

**OPM-CHO CDF18** 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

OPM-CHO CDF18 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

OPM-CHO CDF18 Liquid: 12 months  
OPM-CHO CDF18 Powder: 18 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 OPM-CHO CDF18 DPM, starts with 800 mL of water.
- 2.Add OPM-CHO CDF18 DPM at 165.48 g/L slowly to the vessel, avoiding formation of clumps. Keep stirring for 20 minutes. The solution will remain cloudy at this step, but should be clear after pH adjust in next steps.
- 3.Add 5N NaOH and stir until completely dissolved.Adjust pH to 7.4 with 5N HCl slowly.
- 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 "OPM-CHO CDF18"
- 8.Store the reconstituted supplement at 2°C to 8°C with protection from light.

### Quality Specifications

Specifications	OPM-CHO CDF18 Medium	OPM-CHO CDF18 DPM
Appearance	Red or orange red clear liquid	—
pH	7.2~7.8	7.2~7.8
Osmolality (mOsm/kg)	1400~1800	1400~1800
Solubility	—	Good by following the reconstitution instructions
Endotoxin (EU/mL)	<1.0	<1.0

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 OPM-CHO CDF18 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>OPM-CHO CDF18:</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 OPM-CHO CDF18 feed and the highly concentrated feed every other day until the end of the culture.	<b>OPM-CHO CDF18:</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
OPM-CHO CDF18	F081718-500	Liquid	500ml
OPM-CHO CDF18 DPM	F091718-001	Dry powder	1L
OPM-CHO CDF18 DPM	F091718-010	Dry powder	10L
OPM-CHO CDF18 DPM	F091718-050	Dry powder	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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