



OPM-CHO PFF06

High Performance Protein-free feed

— For Biomanufacturing

OPM-CHO PFF06 is a high performance, protein-free feed designed for the growth of Chinese Hamster Ovary (CHO) cells and transfection in suspension culture. It is free of any animal-origin components, and contains no growth factors. In conjunction with OPM-CD TransCHO medium, higher expression level of the target protein can be achieved.

Application

OPM-CHO PFF06 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 PFF06 Liquid: 12 months
OPM-CHO PFF06 Powder: 24 months

Reconstitution Method for Dry Powder

1. Measure out 80% 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. Add 20mL/L 5N NaOH.
3. Slowly add dry powder Part A at 86.25 g/L and stir for 20 minutes.
4. Adjust pH to 8.9-9.0 with 5N NaOH, and stir for 5~10 minutes until completely dissolved.
5. Adjust pH to 7.6 with 5N HCl.
6. Slowly add dry powder Part B at 36 g/L, and continue to stir for 20 minutes until completely dissolved.
7. Add cell culture grade purified water to 100% final volume, and continue to stir for 10 minutes.
8. Sterile filter using a membrane filter with a pore size of 0.22 micron. Store at 2~8°C, protect from light.

Quality Specifications

Specifications	OPM-CHO PFF06 Medium	OPM-CHO PFF06 DPM
Appearance	Brown-red clear liquid	Part A: off -white or light yellow powder PartB: Khaki powder
pH	7.0~7.7	7.0~7.7
Osmolality (mOsm/kg)	1050~1250	1050~1250
Solubility	—	Good by following the reconstitution instructions
Endotoxin (EU/mL)	<10	<10
Sterility test	Negative	—



Cell Culture Conditions

37°C, 80% humidity, 5~8%CO₂

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

Recommended feeding strategy

Basal medium	Cell recovery after transfection	Feed strategy	
OPM-CD TransCHO	Cells recover well (Doubling time of cells after transfection is not changed significantly, and the viability is greater than 90%)	OPM-CHO PFF06	Add 4%, 5%, 6%, 5%, 4% and 4% of the initial culture volume of OPM-CHO PFF06, at D1, D3, D5, D7, D9 and D11 respectively after transfection; When glucose is $\leq 3\text{g/L}$, add glucose concentrate at 6g/L final concentration
	Cells recover not well (Doubling time of cells after transfection is prolonged significantly, or the viability is lower than 90%)	OPM-CHO PFF06	Observe and determine the feed starting point according to cell recovery

Order Information

High Performance Feeds

Name	Cat No.	Type	Volume
OPM-CHO PFF06	1265F05-001	Liquid	1000mL
OPM-CHO PFF06 DPM	1275F05-010	Dry powder	10L

Cell Culture Media

Name	Cat No.	Type	Volume
OPM-CD TransCHO	P83059	Liquid	1000mL
OPM-CD TransCHO DPM	P93059	Dry powder	10L/50L/100L

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