

CDF056

Chemically Defined High Performance Feed

— For Biomanufacturing



CDF056 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 and highly concentrated feeds, higher growth & viability, and higher expression level of the target molecule can be achieved.

Application

CDF056 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

CDF056 Liquid: 12 months
CDF056 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. Slowly add dry powder medium at 160 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. Measure pH and osmolality.
5. 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	CDF056 Medium	CDF056 DPM
pH	6.5~7.5	6.5~7.5
Osmolality (mOsm/kg)	1200~1500	1200~1500
Solubility	---	Good by following the reconstitution instructions
Endotoxin (EU/mL)	<5.0	<5.0
Sterility test	Negative	---

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 1	Seed cells into OPM's basal media at a density of 0.5×10^6 ~ 1.5×10^6 viable cells/mL.	—
Day 2-4	Add CDF056 feed and the highly concentrated feed when the cell density has reached 4.0×10^6 ~ 6.0×10^6 cells/mL.	CDF056: 3~6% of initial culture volume; Highly Concentrated Feed: 0.3%~0.6% of initial culture volume.
Day 4-14/16	Add CDF056 feed and the highly concentrated feed every other day until the end of the culture.	CDF056: 3~6% of initial culture volume; Highly Concentrated Feed: 0.3%~0.6% of initial culture volume.

Order Information

High Performance Feeds

Name	Cat No.	Type	Volume
CDF056	C504219	Liquid	100ml/ 500ml/ 1000ml
CDF056 DPM	C514135	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 Galatossylation enhancer	S81912	Liquid	100mL / 1000mL
OPM-ACA Anti-clumping agent	S0907001	Liquid	100mL / 500mL / 1000mL

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