

CDFS36

Highly Concentrated Feed

— For Biomanufacturing



CDFS36 is a chemically-defined, highly concentrated feed which is designed for high density suspension culture of Chinese Hamster Ovary (CHO) cell lines. 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 high performance feeds, higher growth & viability, and higher expression level of the target molecule can be achieved.

Application

CDFS36 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

CDFS36 Liquid: 12 months
CDFS36 Powder: 24 months

Reconstitution Method for Dry Powder

- 1.Fill a clean mixing vessel to 70% 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 CDFS36, starts with 700 mL of water.
- 2.Add CDFS36 DPM at 60 g/L slowly to the vessel, avoiding formation of clumps. Keep stirring for 20 minutes. Product will remain turbid.
- 3.Add 5N NaOH slowly to increase pH until the solution is clear. Usually the solution will be clear with pH around 10.9-11.3.
- 4.Continue mixing for 30 minutes.
- 5.Adjust to the final volume with high quality purified water, such as WFI, deionized or distilled water. Mix for an additional 20 minutes.
- 6.Measure the pH. Check and record osmolality.
- 7.Sterilize immediately by membrane filtration.
- 8.Label as "CDFS36".
- 9.Store the reconstituted supplement at 2°C to 8°C with protection from light.

Quality Specifications

Specifications	CDFS36 Medium	CDFS36 DPM
Appearance	Colorless to light yellow clear liquid	White powder
pH	10.8~11.5	10.8~11.5
Osmolality (mOsm/kg)	700~1000	700~1000
Solubility	---	Good by following the reconstitution instructions

Sterility test	Negative	---
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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 OPM's high performance feed and CDFS36 feed when the cell density has reached 4.0×10^6 ~ 6.0×10^6 cells/mL.	OPM's high performance feed: 3~6% of initial culture volume; CDFS36: 0.3%~0.6% of initial culture volume.
Day 4-14/16	Add OPM's high performance feed and CDFS36 feed every other day until the end of the culture.	OPM's high performance feed: 3~6% of initial culture volume; CDFS36: 0.3%~0.6% of initial culture volume.

Order Information

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 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

High Performance Feeds

Name	Cat No.	Type	Volume
AltairCHO™ Feed	C675219	Liquid	500mL
AltairCHO™ Feed DPM	C679332	Dry powder	10L / 50L
VegaCHO™ Feed	P134305	Liquid	500mL
VegaCHO™ Feed DPM	P120826	Dry powder	10L / 50L

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