



CDFS36 Feed

Chemically Defined Highly Concentrated Feed

CDFS36 is a highly concentrated, chemically-defined feed designed for the high density suspension culture of Chinese Hamster Ovary (CHO) cell lines. It is free of any animal-origin components, hydrolysates, growth factors and components of unknown composition. This feed supports the high level expression of recombinant proteins and therapeutic antibodies. When used in conjunction with OPM's basal media and highly performance feeds, it promotes improved cell growth, viability and can significantly boost the expression level of the target molecule.

Application

CDFS36 is intended for large-scale manufacturing of therapeutic biomolecules and for research purposes. It is not intended for use in humans, diagnostic procedures, or therapeutic purposes.

Storage & Transportation

Store at 2-8°C in a dry environment and protected from light

Liquid media is shipped at room temperature and dry powder media on blue ice

Shelf Life

CDFS36 Feed Liquid: 12 months

CDFS36 Feed Powder: 24 months

Reconstitution Protocol for CDFS36 Feed Powder

1. Fill a clean mixing vessel to 70% of the final volume with high quality purified water at room temperature (25°C to 35°C), such as WFI at ambient temperature. For example, to prepare 1 liter of CDFS36 Feed, start with 700 mL of water. Start mixing.
2. Add CDFS36 Feed DPM at 60 g/L slowly to the vessel, avoiding formation of clumps. Mix for 30 minutes. The solution will remain cloudy after mixing but will clear upon pH adjustment in the next step.
3. Add 5N NaOH slowly to increase the pH until the solution is clear. The solution will usually clear when the pH reaches approximately 10.9-11.3. Continue mixing for 30 minutes.
4. Adjust to the final volume with high quality purified water, such as WFI. Mix for an additional 20 minutes.
5. Measure final pH and osmolality.
6. Sterilize immediately by membrane filtration.
7. Label as "CDFS36".
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	Colorless to light yellow clear liquid	Off-white or light yellow powder
pH	10.8 – 11.5	10.8 – 11.5
Osmolality (mOsm/kg)	700 - 1000	700 - 1000
Solubility	Not applicable	Good if reconstitution instructions are followed
Sterility test	Negative	Not applicable

Cell Culture Parameters

Temperature: 37°C

Incubator settings: 80% humidity, CO₂: 5-8%

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

Recommended Feed Strategy

Time	Description	Feeding Strategy
Day 0	Seed cells into OPM's basal media at a density of 0.5×10^6 – 1.5×10^6 viable cells/mL	None
Day 2-4	Add OPM's high performance feed and CDFS36 feed when the cell density reaches 4.0×10^6 – 6.0×10^6 cells/mL	OPM's high performance feed: Add 3-6% of the initial culture volume CDFS36: Add 0.3-0.6% of the initial culture volume
Day 4-14/16	Add OPM's high performance feed and CDFS36 feed every other day until termination of the culture	OPM's high performance feed: Add 3-6% of the initial culture volume CDFS36: Add 0.3-0.6% of the initial culture volume



Ordering Information

Highly Concentrated Feeds

Name	Cat No.	Format	Pack Size
CDFS36	C217836	Liquid	500mL / 1000mL
CDFS36 DPM	C672069	Dry powder	1L / 2L / 5L / 10L / 50L / 100L

Related Products:

Cell Culture Base Media

Name	Cat No.	Format	Pack Size
VegaCHO™ Medium	P121662	Liquid	1000mL
VegaCHO™ DPM	P106390	Dry powder	10L / 50L / 1000L
AltairCHO® Medium	C673017	Liquid	1000mL
AltairCHO® DPM	C670226	Dry powder	10L / 50L / 1000L

High Performance Feeds

Name	Cat No.	Format	Pack Size
AltairCHO® Feed	C675219	Liquid	500mL / 1000mL
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.	Format	Pack Size
OPM GAL+V2 Galactosylation Enhancer	S81912	Liquid	100mL / 1000mL
OPM-ACA Anti-clumping agent	S0907001	Liquid	100mL / 500mL / 1000mL