VegaCHO Feed

Chemically Defined High Performance Feed

VegaCHO Feed is a chemically-defined high performance feed designed for the 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, hydrolysates, 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 concentrated feeds, it promotes improved cell growth, viability and can significantly boost the expression level of the target molecule.

Application

VegaCHO Feed 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

VegaCHO Feed Liquid: 12 months
VegaCHO Feed Powder: 24 months

Reconstitution Protocol for VegaCHO Feed Powder

1. Fill a clean mixing vessel to 80% 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 VegaCHO Feed, start with 800 mL of water. Start mixing.
2. Add VegaCHO Feed DPM at 154.26 g/L slowly to the vessel, avoiding formation of clumps. Continue mixing for 10 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 to 7.0. Continue mixing for 30 minutes. Solution should be clear at this point.
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 "VegaCHO Feed".

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8. Store the reconstituted supplement at 2°C to 8°C with protection from light.

Quality Specifications

Specifications	VegaCHO™ Feed Medium	VegaCHO™ Feed DPM
pH	6.5 – 7.5	6.5 – 7.5
Osmolality (mOsm/kg)	1150 – 1450	1150 – 1450
Solubility	Not applicable	Good if reconstitution instructions are followed
Endotoxin (EU/mL)	<2.0	<2.0
Sterility test	Negative	Not applicable

Cell Culture Parameters

Temperature: 37°C

Incubator settings: 80% humidity, CO_2: 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 $0.5x10^6$ – $1.5x10^6$ viable cells/mL	None
Day 2-4	Add VegaCHO Feed and the highly concentrated feed CDFS36 when the cell density reaches $4.0x10^6$ – $6.0x10^6$ cells/mL	**VegaCHO 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 VegaCHO Feed and the highly concentrated feed CDFS36 every other day until termination of the culture	**VegaCHO Feed**: Add 3-6% of the initial culture volume **CDFS36**: Add 0.3-0.6% of the initial culture volume

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Ordering Information

High Performance Feeds

Name	Cat No.	Format	Pack Size
VegaCHO Feed	P134305	Liquid	1000mL
VegaCHO Feed DPM	P120826	Dry powder	10L / 50L

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

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

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

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