CHOin1™ Feed Medium

Chemically Defined, Animal component-free
With D-Glucose and Pluronic F68®
Without L-Glutamine and Phenol red

Product Code: SFF006P

Product description:

CHOin1™ Feed Medium is a chemically defined, animal component free powder feed supplement designed to enhance cell growth and monoclonal antibody production of recombinant Chinese Hamster Ovary (CHO) cells in fed batch mode of protein production.

Media Consists of -
Part A : Feed Medium
Part B : Feed Supplement

Ingredients	SFF006P
D-Glucose	●
L-Glutamine	-
Hypoxanthine	-
Thymidine	-
Phenol red	-
Animal component	-
Insulin	-
Peptides	-
Hydrolysates	-
Pluronic F68	●

Materials required but not provided:

CHOin1TM Feed Medium, (SFM007L)
CHOin1TM Feed Medium, (SFM007AP)
Trypan blue solution (TCL005)
1N Sodium Hydroxide (TCL002)
1N Hydrochloric acid (TCL003)
L-Glutamine Solution (TCL012)

Directions:

Development of an appropriate feeding strategy is a crucial approach in process development as it improves cell longevity, cell metabolism and ultimately the protein production.

Users are advised to determine optimal feeding strategy empirically for given cell line and associated process.

Procedure for feed preparation

1. Suspend 97.1g of powder feed Medium(Part A) in 700ml of cell culture grade water.
2. Stir for 30 -40 minutes on a magnetic stirrer.
   Note: Powder does not dissolve completely. The solution remains hazy.
3. Adjust the pH to 11 using 5N sodium hydroxide with continuous stirring. Powder dissolves completely and solution appears clear. Now adjust it to pH 7.1-7.3with 5N HCl.
4. Add 10-15ml of liquid Part A prepared above; to the bottle containing lyophilized Part B.
5. Mix properly by pipetting up and down.
6. Add this reconstituted Part B in Part A.
7. Make up the volume to 1000ml using cell culture grade water.
8. Sterilize the medium immediately by filtering through a sterile membrane filter with a porosity of 0.22 micron or less, using positive pressure.
9. Aseptically add sterile supplements as required and dispense the desired amount of sterile medium into sterile containers.
   Store at 2 – 8°C until used.

Procedure for feeding

1. Seed the cells pre-adapted to CHOin1 ™ Growth Medium (Product code : SFM007L/ SFM007AP) in required culture vessel

2. Monitor the critical process parameters on each day of process:
   A. Cell density
   B. Cell viability
   C. Glucose concentration

3. Feed the culture with feed supplement when glucose level drops down to 3g/L.

4. Recommended volume of each feed supplement is 5-10% of total media volume.

5. In our experience, cultures need to be supplemented on day 3, 5, 7, 9, 11, 13 and 15 i.e. every alternate day. (Note : This can be vary as per clone. User needs to optimize the feed concentration as per the growth kinetics of clones.

Quality control:

Appearance

Part A: White to Off-white, homogenous powder

Part B: Frozen Supplement

pH (adjusted)

7.00 – 7.60

Storage and shelf life:

Store Feed medium at 2-8°C away from bright light.
Store Feed supplement at -20°C.
Shelf life of Part A is 36 Months and Part B is 12 Months after reconstitution the shelf life of complete medium is 8 weeks at 2-8°C.
Use before expiry date given on the product label.

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