

Product Instruction

Hyber-F100S Hybridoma Cell Serum-free Feed Medium

Product Type: Hyber-F100S

Product Description

Hybridoma cell feed medium (Hyber-F100S) is a serum-free feed medium, developed by Shanghai BioEngine Sci-Tech Co., Ltd. This medium is suitable for the effective expressions of high-density suspension culture and antibody protein of hybridoma cell.

Product Formula

The intellectual property rights of hybridoma cell feed medium (Hyber-F100S) formula are owned by Shanghai BioEngine Sci-Tech Co., Ltd. For additional information, please contact our technical support department.

Product Ingredient

The medium contains carbohydrates, amino acids, vitamins, metal ions, hydrolysate and other nutritional components.

This product does not contain components of animal origin, genetically modified plant origin or raw material with mad cow virus origin.

This product does not add any hormones, antibiotics, organic solvents and preservatives.

Product Preservation

- Store in a dark environment at 2-8°C.
- This product is vulnerable to water damage. Please use immediately after opening. If it needs to be stored, please sealed by heat sealing and sealing clips, avoiding damp and being ineffective.
- Do not recommend to use, when the product is beyond expiration date.

Instruction for the preparation of Hybridoma cell feed medium (Hyber-F100S)

Do the preparation of hybridoma cell feed medium as per the one Table 1 shows

Component	Concentration
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Dry powder of hybridoma cell feed medium	123.18 g/L
Sodium hydroxide	1.90 g/L
L-Tyrosine	1.00 g/L
Concentrated hydrochloric acid	5.00 ml/L (Suggested usage)
Sodium hydroxide	0.50 g/L (Suggested usage)

Table 1. Formula table of hybridoma cell feed medium

(1) Weigh 20% water of the final medium preparation volume into the medium preparation container. When preparing, ultrapure water or water for injection and above standard water should be used, and the water temperature should be controlled at 20-30°C.

(2) Turn on the mixing system of the medium preparation container, stir thoroughly, and avoid the generation of air bubbles during stirring.

(3) Accurately weigh 1.90 g/L of sodium hydroxide, and add them into the preparation container near the liquid surface or use special equipment such as homogenizer, and stir thoroughly for 5-10 min.

(4) Accurately weigh 1.00 g/L of L-tyrosine, and add them into the preparation container near the liquid surface or use special equipment such as homogenizer, and stir thoroughly for 5-10 min.

(5) Add the remaining 80% of the water into the beaker, accurately weigh 123.18 g/L of the dry powder of the hybridoma cell feed medium, and them into the preparation container close to the liquid surface or use special equipment such as homogenizer, and stir thoroughly for 20-30 min (At this point, the solution is cloudy).

(6) Use concentrated hydrochloric acid to adjust the pH value to 5.4-5.5, and stir for 20 min (At this point, the solution is clear). The recommended dosage of concentrated hydrochloric acid is 5 ml/L.

(7) Use sodium hydroxide to adjust the pH value to 6.0-6.3, stir for 10 minutes (At this point, the solution is clear); the recommended dosage of sodium hydroxide is 0.50 g/L.

(8) It is recommended to use a pulse pump or compressed air (3-15 psi) to sterile filter the hybridoma cell feed medium solution through a sterile filter with 0.22 μm pore size.

(9) The prepared medium liquid should be stored in a dark environment at 2-8 °C , and the expiration date is one month.

(10) The reference parameters of product

Indicator	Reference Standard
Product initial pH value	6.0-6.3

Osmolality	600-1000 mOsm/Kg
Product turbidity	<4.00NTU

Notes:

- (1) The above units of "g/L" are volume concentration (solute weight/solution volume).
- (2) The above preparation parameters (such as stirring time, etc.) are for the reference of small-scale preparation in research and development. When in production, please set appropriate preparation parameters according to the stirring capacity of the preparation vessel.
- (3) The product belongs to carbon dioxide buffer system. The product final pH value may rise when vigorous stirring or long-time stirring, which is a normal phenomenon and does not affect the use of the product.

