

Product Instruction

Hyber-B100S Hybridoma Cell Serum-free Medium

Product Type: Hyber-B100S

Product Description

Hybridoma cell serum-free medium (Hyber-B100S) is 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 serum-free medium (Hyber-B100S) 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.

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 Serum-free Medium (Hyber-B100S)

Do the preparation of hybridoma cell serum-free medium (Hyber-B100S) as per the one Table 1 shows

Component	Concentration
-----------	---------------

Dry powder of hybridoma cell serum-free medium	23.91 g/L
10 mmol/L dilute hydrochloric acid	1.00 ml/L
Recombinant human insulin	10.00 mg/L
Sodium hydroxide	0.25 g/L (Suggested usage)
Sodium bicarbonate	2.00 g/L

Table 1 Formula table of hybridoma cell serum-free medium

(1) Dissolve recombinant human insulin with 10 mmol/L dilute hydrochloric acid and use it right after it was ready. It is recommended to use 1.00ml of 10 mmol/L dilute hydrochloric acid to dissolve 10.00mg of recombinant human insulin.

(2) Weigh 100% 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.

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

(4) Accurately weigh 23.91 g/L of dry powder of hybridoma cell serum-free medium (Hyber-B100S), add them into the preparation container near the liquid surface or use special equipment such as homogenizer, and stir thoroughly for 20-30 min.

(5) Add the recombinant human insulin solution prepared in step (2) to the preparation container near the liquid surface or using special equipment such as homogenizer.

(6) Slowly add sodium hydroxide to the solution prepared in step (6), adjust its pH value to 6.0-6.5, and stir thoroughly for 10-20 min. The recommended addition amount of sodium hydroxide is 0.25 g/L.

(7) Accurately weigh 2.00 g/L sodium bicarbonate powder, and add them into the preparation container near the liquid surface or use special equipment such as homogenizer, and stir thoroughly for 20-30 min.

(8) Use concentrated hydrochloric acid or 5mol/L concentrated sodium hydroxide solution to adjust the pH value of the medium to 7.0-7.5 (If necessary).

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

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

(11) The reference parameters of product

Indicator	Reference Standard
Product initial pH value	3.30-4.30
Osmolality	240-280 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.

