

Product Instruction

Tac-S101S BHK Serum-free Medium

Product Type: Tac-S101S

Product Description

BHK serum-free medium, developed by Shanghai BioEngine Sci-Tech Co., Ltd., is a personalized medium for the combination use with serums. This medium is suitable for high-density suspension culture of BHK cells and high-efficiency expression of foot-and-mouth disease virus.

Product Formula

The intellectual property rights of BHK serum-free medium 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 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 BHK serum-free medium

Do the preparation of BHK serum-free medium as per the one Table 1 shows

| Component | Concentration |
|-----------|---------------|
|-----------|---------------|

| | |
|-------------------------------------|------------|
| Dry powder of BHK serum-free medium | 24.724 g/L |
| Sodium bicarbonate | 2.438g/L |

Table 1 Formula table of BHK serum-free medium

(1) Weigh 100% water of the final medium preparation volume into the medium preparation container. Purified water or water for injection and above standard water should be used in preparation, and the water temperature should be controlled at 20-30°C.

(2) Accurately weigh 24.724 g/L dry powder of BHK serum-free medium, and add them into the preparation container near the liquid surface, avoid dust, and stir thoroughly for 10 min.

(3) Slowly add 200 g/L concentrated sodium hydroxide solution or solid sodium hydroxide to the solution prepared in step (3), adjust its pH value to 6.0-6.5, and stir thoroughly for 20 min. The amount of sodium hydroxide solid used is about 0.38 g/L.

(4) Accurately weigh 2.438 g/L sodium bicarbonate powder, add sodium bicarbonate powder to the preparation container near the liquid surface, and stir thoroughly for 10 min.

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

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

(7) The reference parameters of product

| Indicator | Reference Standard |
|--------------------------|--------------------|
| Product initial pH value | 3.70-4.10 |
| Osmolality | 310-350 mOsm/Kg |
| Product turbidity | <1.00NTU |

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.