

Product Instruction

Celer-S001S HEK293 Serum-free Medium

Product Type: Celer-S001S

Product Description

HEK293 serum-free medium is a customized product, developed by Shanghai BioEngine Sci-Tech Co., Ltd. This medium is suitable for high-density suspension culture of HEK293 cells and high-efficiency expression and production of adenovirus.

Product Formula

The intellectual property rights of HEK293 serum-free medium formula are owned by Shanghai BioEngine Sci-Tech Co., Ltd.

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.

Instructions for the preparation of HEK293 serum-free medium (constant volume preparation)

Do the preparation of HEK293 serum-free medium as per the one that Table 1 shows

Component	Concentration
Dry powder of HEK293 serum-free medium	23.35 g/L
Sodium bicarbonate	2.00 g/L

Table 1 Preparation of HEK293 serum-free medium

- (1) 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.
- (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 23.35 g/L of dry powder, add them into the preparation container near the liquid surface or use special equipment such as homogenizer, and stir thoroughly for 20 min.
- (4) Slowly add sodium hydroxide particles to the prepared solution in step (3), adjust the pH value to 6.0-6.5, and stir thoroughly for 20 min. The recommended addition amount of sodium hydroxide particles is 240 mg/L.
- (5) Accurately weigh 2.0 g/L sodium bicarbonate powder, add them into the preparation container near the liquid surface or use special equipment such as homogenizer, and stir thoroughly for 20 min. The pH value of the medium should be within the range of 7.0-7.4.
- (6) It is recommended to use a pulse pump or compressed air (3-15 psi) to sterile filter the medium solution through a sterile filter membrane with 0.22 μm pore size.
- (7) The prepared medium liquid should be stored in a dark environment at 2-8°C, and the expiration date is one month.
- (8) Reference parameters of the product

Indicator	Reference standard
Product initial pH value	3.70-4.40
Osmolality	290-340 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.