

SF206 BHK Serum-free Feed Medium

Product Name: SF206

User Manual

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Description

SF206 is a serum-free culture medium developed by Shanghai Biotechnology Co., Ltd. with independent intellectual property rights, targeting the growth and metabolism characteristics of BHK-21 cells during the production of foot-and-mouth disease virus (FMDV). It is protein free and animal component free, suitable for high-density suspension culture of BHK cells, and supports efficient production of FMDV.

Application

This product is intended for research or further manufacturing in the bio-manufacturing industry, but not for human or therapeutic use.

Composition

The IP rights of SF206 medium formulation are owned by Shanghai BioEngine Sci-Tech Co., Ltd.

This medium contains:

- Carbohydrates and amino acids.
- 157.5 g/L D-glucose, 140 mM glutamine.

Not contain:

- Cytokines, antibiotics, HEPES and phenol red.
- Raw materials from animal sources.

Storage

- Store medium at 2-8°C, away from light.
- Once opened, the powder medium should be stored protected from moisture in a tightly sealed container.
- Do not use it after the expiration date or being damped.

Reconstitution of Powder Medium

Table 1 shows the preparation of SF206 medium ^[1].

Ingredients	Concentration
SF206 medium powder	281 g/L ^[2]

Table 1. Preparation of SF206 medium

- 1) Weigh 100% water of the final volume into the preparation container using pure water, ultrapure water, or water for injection at 20-30°C. Mix thoroughly without creating air bubbles.
- 2) Accurately weigh the corresponding mass of SF206 medium powder at a concentration of 281 g/L and add it into the preparation container of 1) step. Stir well for 20-30 minutes.
- 3) Slowly adjust to pH 7.0-7.1 with 5-10 mol/L sodium hydroxide solution. Stir for 10-15 minutes. At this point, the solution should be clear.
- 4) Pass the medium solution through a pore size of 0.22 or 0.2 µm sterile filter membrane, such as PES, using a pulse pump or compressed air (3-15 psi).
- 5) Use the prepared medium liquid immediately or store it in glass bottles, PET storage bottles, or disposable storage bags with an oxygen barrier membrane in a dark environment of 2-8°C. It's recommended for use within one month.

Note:

^[1] The above parameters (such as stirring time) are set for small-scale liquid preparation. Adjust these parameters for large-scale preparation based on container capacity to ensure full dissolution of dry powder.

^[2] The “g/L” unit denotes volumetric concentration (solute mass/solution volume).

Specifications of final liquid medium

Test	Unit	Specification
pH		7.0 – 7.1
Osmolality	mOsm/kg	1600 – 2000
Turbidity	NTU	< 8.00

Table 2. Specifications of final liquid medium

Fed-batch Culture**Culture conditions**

Incubate at 37°C in a humidified atmosphere of 5% CO₂ in air on an orbital shaker platform rotating at 110-130 rpm (110 rpm for 50 mm amplitude; 130 rpm for 10 mm amplitude).

Feed strategy

- 1) It is recommended to use in combination with Tac-S101S medium. SF206 is added post infection.
- 2) From infection day (Day 0), feed 3% (v/v) SF206 every day.

Related Product

Product	Cat. No.	Form	Size	Packaging	Notes
Tac-S101S BHK Serum-free Medium	EXP0102003	Powder	10 L	Bag	<ul style="list-style-type: none"> ● SF, PF, ADCF ● Supports efficient vaccine production of pseudorabies, newcastle disease, Japanese encephalitis, rabies viruses, etc.
	EXP0102004	Powder	100 L	Bag	
	EXP0102005	Powder	200 L	Bag	
SF201 BHK Serum-free Medium	EXP0101201	Powder	200 L	Bag	<ul style="list-style-type: none"> ● SF, PF, ADCF ● Supports efficient production of the foot-and-mouth disease virus
SF206 BHK Serum-free Feed Medium	EXP0105101	Powder	1 L	Bag	<ul style="list-style-type: none"> ● SF, PF, ADCF ● To be used with Tac-S101S or SF201 in fed-batch culture
	EXP0105102	Powder	10 L	Bag	



Scan the QR code for more product information.

Stay tuned for more updates.

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