

Celer-F001bS 293 Serum-free Feed Medium

Product Name: Celer-F001bS

User Manual

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Description

Celer-F001bS 293 feed is a proprietary, chemically defined, protein-free, and animal component-free cell culture medium independently developed, formulated, and manufactured by Shanghai BioEngine Sci-Tech Co., Ltd. It is suitable for fed-batch of human embryonic kidney cells 293 (Human Embryonic Kidney 293 Cells, HEK293). When used in conjunction with the Celer series of feed media (refer to "Related Products"), it can support high-density cell growth and maintenance, achieve higher levels of product expression and quality.

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 Celer-F001bS basal medium formulation are owned by Shanghai BioEngine Sci-Tech Co., Ltd.

This medium contains:

☒ Amino acids

Not contain:

☒ D-glucose, P188, glutamine, 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 Celer-F001bS medium [1].

Ingredients	Concentration
Celer-F001bS medium powder	74.00 g/L [2]

Table 1. Preparation of Celer-F001bS medium

- 1) Weigh 80% 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 Celer-F001bS basal medium at a concentration of 74.00 g/L and then add 26.50 g/L of NaOH and mix for at least 30 minutes.
- 3) Dilute to final production volume with pure water, ultrapure water, or water for injection. Mix for 10-15 min.
- 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
Osmolality	mOsm/kg	900 – 1300
Turbidity	NTU	< 4.00

Table 2. Specifications of final liquid medium

Fed-batch Culture

- 1) The fed-batch culture combined with Celer series basal media.
- 2) 24 h after transient transfection, add 5% Celer-F001bS, 0.5% Celer-F001bS, and 1% enhancer to cell suspension, culture was continued until harvest.
- 3) When performing the fed-batch culture of stable expressed 293 cells, supplemented with 3% Celer-F001bS and 0.3% Celer-F001bS every other day from day3. Residual glucose is not less than 2 g/L, maintain glucose concentration above 6 g/L.

Related Product

Product	Cat. No.	Form	Size	Packaging	Notes
Celer-S001 HEK293 Serum-free Medium	EXP0104003	Liquid	1 L	Bottle	● SF, PF, ADCF ● Supports adenovirus amplification ● Support exosome production
Celer-S001S HEK293 Serum-free Medium	EXP0108403	Powder	10 L	Bag	
	EXP0108405	Powder	200 L	Barrel	
Celer-S101 293 Serum-free Medium	EXP0119601	Liquid	1L	Bottle	● SF, PF, ADCF, CD ● Support viral vector packaging like AAV, LV and RV
Celer-S101S 293 Serum-free Medium	EXP0112003	Powder	10L	Bag	
	EXP0112005	Powder	200L	Barrel	
Celer-S201 293 Serum-free Medium	EXP0103001	Liquid	1 L	Bottle	● SF, PF, ADCF, CD ● Supports transient & stable protein expression of 293 cells
Celer-S201S 293 Serum-free Medium	EXP0103002	Powder	10 L	Bag	
	EXP0103005	Powder	200 L	Barrel	
Celer-F001aS 293 Serum-free Feed Medium	EXP0117301	Powder	10 L	Bag	● SF, PF, ADCF ● To be used with Celer-S101S or Celer-S201S in fed-batch culture
	EXP0117302	Powder	1 L	Bag	
	EXP0117304	Powder	20 L	Barrel	
Celer-F001bS 293 Serum-free Feed Medium	EXP0117402	Powder	1 L	Bag	
	EXP0117403	Powder	10 L	Barrel	



Scan the QR code for more product information.

Stay tuned for more updates.

Tel: 86-21-68582660

Web: www.bio-engine.com.cn/EN

Shanghai BioEngine Sci-Tech Co., Ltd

Floor 4, Building 3, Lane 396, LvZhou Ring Road, Shanghai, China

Tel: 86-21-68582660

www.bio-engine.com.cn/EN

