

ROSE

BHK 21 cell culture medium

Serum free, animal component free, for maximal virus and recombinant protein production.

BENEFITS

Developed to maximize virus and recombinant protein production with BHK 21. The medium provides equivalent of higher growth of BHK 21 cells when compared to serum-containing medium. The medium offers

Simplicity: Ideal from bench to manufacturing scale.

Serum-free and animal component free: Reduces the risk for animal derived contaminants.

Fully defined: It doesn't contain hydrolysates or other complex additives. Thus, process variability is reduced.

Antibiotic-free: No risk of antibiotic traces, hidden contamination and endotoxins.



PRODUCT INFORMATION

ROSE medium is free of serum, animal components and hydrolysates. The medium is developed for maximal virus and recombinant protein production in suspension cells. If combined with ROSE Feeds medium supports a viable cell concentration up to $3,8 \times 10^7$ /mL. BHK 21 suspension cells have been carried for more than 2 years in ROSE medium with no loss of viability.

ROSE medium is easy-to-use and suitable for suspension cultures. It requires only minimal or no adaptation from other serum-free media.

APPLICATION

ROSE medium is dedicated to maximal production of wide range of viruses as animal or human vaccine.

ROSE is also suitable for recombinant protein expression. This is made possible by combining ROSE with its feeds to achieve high cell concentration, thus high protein concentration.

MEDIUM SPECIFICATION

Name	ROSE
Regulatory	Serum-free, animal component free, hydrolysate free, antibiotic free
Available Form	Liquid
Cell Line	BHK 21 suspension cells
Storage Condition	2-8 °C, protect from light
Application	For research and manufacturing

ROSE PERFORMANCE

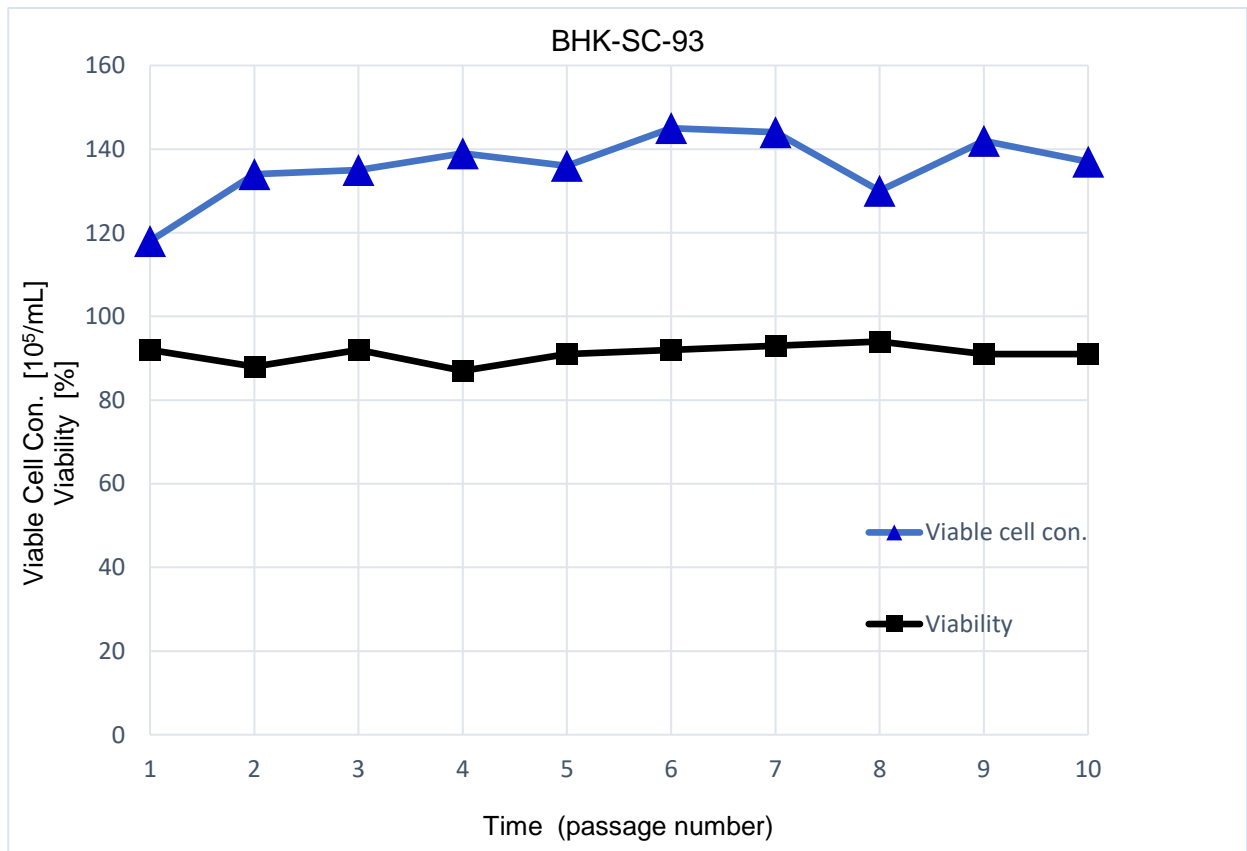


Figure 1: BHK 21 suspension cells are cultured in stock culture (shake flask) in ROSE culture medium for 10 passages. Inoculation cell concentration was kept by 3×10^5 /mL. Cells were split every 3rd day.

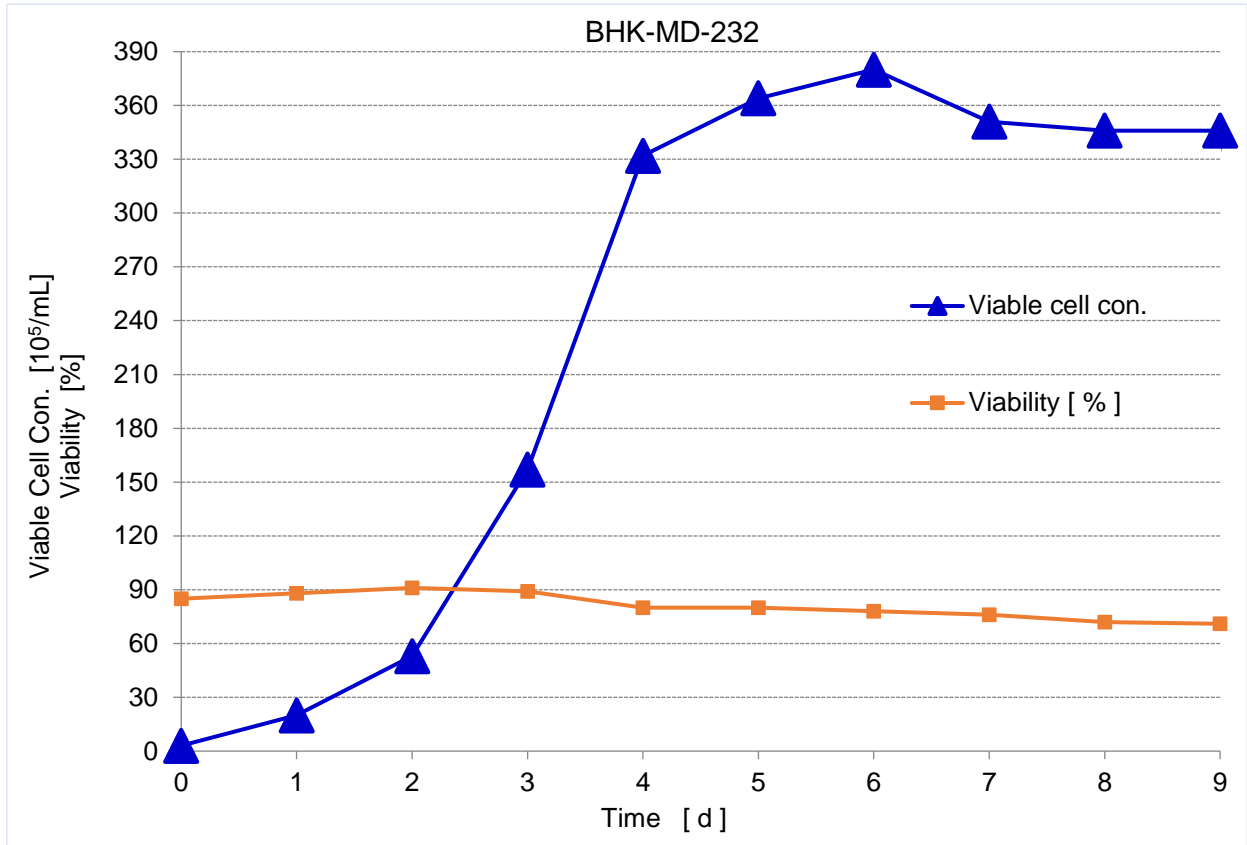


Figure 2: Cell growth performance of BHK 21 suspension cells in ROSE medium with combination of ROSE Feeds medium for 9 days as fed-batch experiment. Viability was kept above 70% for 9 days. Cells reached peak cell concentration of 3.8×10^7 /mL at day 6. Experiment is performed in 4 L stirred tank bioreactor.

ORDERING INFORMATION

Name	Application	Formulation	Volume	Catalogue number
ROSE	Culture medium	Liquid	1 L	RSE46-L1
ROSE	Culture medium	Liquid	0,5 L	RSE46-L05
ROSE FEED A	Feed A medium	Liquid	0,5 L	RFA77-L05
ROSE FEED B	Feed B medium	Liquid	0,1 L	RFB77-L01

Custom made media are possible.
GMP grade liquid and powder formulations are available.

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