



**SF-4 BACULO
EXPRESS**
SERUM FREE
INSECT MEDIUM

BioConcept is a leading manufacturer and service partner for numerous top-tier pharmaceuticals and academic institutions in Switzerland and around the world.

BioConcept has been operating under a certified quality management system since 1995. Our production sites for liquid and powder media production are located in the Life Science area Basel (Switzerland).



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SF-4 Baculo Express

Serum Free Insect Medium

Extensive development and further investigation on the nutritional needs of insect cells, based on the excellent performance of SF-1, resulted in our improved “ready to use” SF-4 Baculo Express medium.

SF-4 Baculo Express medium is a proprietary serum free formulation which has successfully been used to grow various *Spodoptera frugiperda* (SF9, SF21), BTI-TN-5B1-4 (High Five™) and *Drosophila melanogaster* (D.Mel-2) cells. With SF-4 Baculo Express media all cell types can be cultivated: monolayer-, spinner- or shaking cultures, adherent cells and suspension cells. The medium contains all additives necessary for the cultivation of insect cells in the optimal concentration: steroids, amino acids, organic acids, glutamine and glucose. The medium is designed for efficient infection and expression with the Baculovirus system.

Already successfully used in different academic and industrial laboratories, SF-4 Baculo Express medium shows the following improvements:

High Cell Density

Densities up to 2×10^7 cells/ml could be achieved using SF-4 in bioreactors and spinner flasks

Versatility

Not only suitable for SF9 and SF21 but also High Five™ and *Drosophila* cells

Fast Adaption

Only few passages are needed, if you switch from your current serum supplemented medium (e.g. TC-100 or Grace's). Direct switch from your current serum free (but not protein free) medium is possible for some of the commercially available media

High Protein Yield

Results indicate an increased protein yield (1.5–2.7 times) in recombinant protein production compared to previously used media

Available SF-4 Baculo Express Serum Free Media

Cat. No.	Description	Size	Protein free
9-00F38-I/K	SF-4 Baculo Express ICM “ready to use”	500 ml/1 L	contains yeast extract
9-07S38-I	SF-4 Baculo Express (1.1 × conc.), w/o yeast, w/o L-Valine	500 ml	x
9-10S38-I	SF-4 Baculo Express (1.1 × conc.), w/o yeast, w/o Methionine	500 ml	x
9-05S38-I	SF-4 Baculo Express (1.1 × conc.), w/o yeast, w/o L-Tyrosine	500 ml	x
9-02S38-I	SF-4 Baculo Express (1.1 × conc.), w/o yeast, w/o amino acids	500 ml	x

Amino acid depleted SF-4 media (Cat. No: 9-07S38-I, 9-10S38-I, 9-05S38-I and 9-02S38-I) are an efficient reagent for isotope labeling in NMR studies.

Other modifications are available upon request at info@bioconcept.ch

References

[SF-4 Baculo Express](#)

