

Production Boost Additive

Expression Systems' Production Boost Additive (PBA) is a nutrient boost designed to increase protein expression by supporting the increased needs of insect cells infected by recombinant baculovirus. PBA is a serum-free, animal-free formulation that complements ESF 921 and ESF AF insect cell culture media and extends the late and very-late expression period of production by maintaining high culture viability. PBA is a cocktail of nutrients designed for supplementation at a rate of 1–10% at 6–36 hours post infection.

- Serum-free, animal-free formulation works seamlessly with ESF 921 and ESF AF
- Extends culture period by maintaining cell viability
- Increases protein expression
- Available in 100 mL or 1 L bottles—inquire for custom packaging
- In stock for immediate shipment

Specifications

Media type	Serum-free, animal-free liquid, 1X
Shipping condition	Ambient
Storage condition	2–8°C, protect from light
Use-by date	One year from date of manufacture



Order today—and find helpful documentation at [expressionsystems.com](https://www.expressionsystems.com)



Insect and Mammalian
Cell Culture Media, Systems
and Services

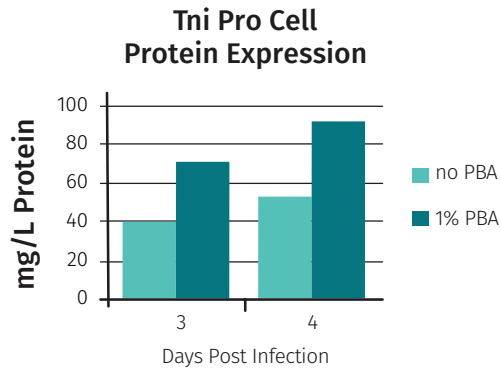
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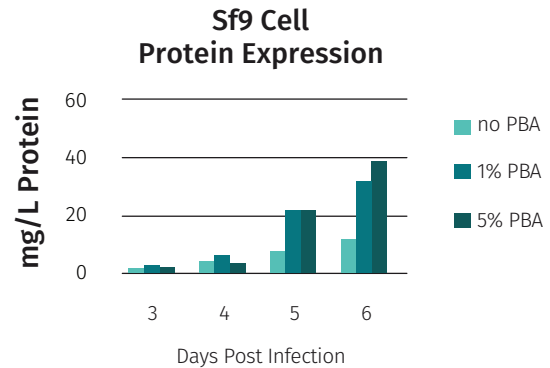
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Production Boost Additive (PBA)

Is a nutrient supplement designed for enhancing cell culture production after the establishment of baculovirus infection. PBA works with all insect cells grown in ESF 921 or ESF AF. Below are demonstrations of increased protein production using Sf9 and Tni Pro cells.



(Fig. 1) Tni Pro cells were infected with a recombinant baculovirus at an MOI of 1. PBA was added at 1% of the culture volume 18 hours post infection. Sf9 cells



(Fig. 2) were infected at an MOI of 0.02. PBA was added at 1% or 5% of the culture volume 36 hours post infection. The recombinant protein was secreted into the culture supernatant and harvested daily. Protein expression levels were determined by protein specific ELISA.

	Cell Culture Media and Reagents		Molecular Tools
96-001	ESF 921™ Insect Cell Culture Medium, Protein Free	95-055	Transfection Reagent
99-300	ESF AF™ Insect Cell Culture Medium, Animal Free	91-001	BestBac™ 1.0 Linearized Baculovirus DNA
96-200	ESF 921™ Delta Series Insect Cell Culture Medium, Methionine Deficient	91-002	BestBac™ 2.0 Δ v-cath/chiA Linearized Baculovirus DNA
96-299	ESF 921™ Delta Series Insect Cell Culture Medium, Custom Amino Acid Deficient	91-100	BestBac™ 1.0 Baculovirus Cotransfection Kit
95-020	Transfection Medium	91-200	BestBac™ 2.0 Δ v-cath/chiA Baculovirus Cotransfection Kit
95-006	Production Boost Additive	97-101	Baculovirus Titering Kit
98-001	ESF SFM Serum Free Cell Culture Medium For Hybridoma, CHO & 293 Cells	97-201	gp64-PE Antibody

About Expression Systems

Headquartered in Davis, California, Expression Systems specializes in the products, services and support necessary for high quality baculovirus protein production. Our unique focus in BEVS applications helps researchers and clinicians around the world work at the highest level of consistency. At any step in the process, from gene synthesis to protein purification, Expression Systems helps achieve best-in-class results.

