

# ESF AF™

## Animal-Free Insect Medium

Expression Systems' ESF AF™ is an animal origin-free and animal component-free formulation for insect cell culture. It has been thoroughly tested on Sf9, Sf21, Tni (High Five™) and S2 cell lines and is comparable to ESF 921™ for growth and expression. ESF AF™ is the logical choice for further manufacturing under cGMP/FDA regulatory compliance and has a Drug Master File with the US FDA.

- 100% animal component-free
- Comparable to ESF 921™ medium for robust cell growth and expression
- Sf9 cell densities of  $20 \times 10^6$  cells/ml or greater
- Ideal for scale-up manufacturing
- Works with a wide variety of baculovirus and host cell platforms
- Optimized for applications such as production of sub-unit vaccines, virus-like particles and gene therapy vectors (rAAV — all serotypes)
- Available in 1L bottles, media transfer bags and single use bioreactor bags
- Complete, ready-to-use, contains L-glutamine
- In stock for immediate shipment
- Adapted cells available
- Inquire about custom formulations, packaging for bioreactors and master cell bank availability for licensing

### Specifications

Media type	Ready-to-use serum-free animal-free liquid, 1X
Platform compatibility	Functions with BestBac™, Bacmid, Bac-to-Bac®, BacMam™, MultiBac™ and other BEVS platforms
Cell lines	<i>Spodoptera frugiperda</i> (Sf9, Sf21), <i>Trichoplusia ni</i> (Tni and High Five™) and <i>Drosophila melanogaster</i> (S2)
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](http://expressionsystems.com)



## Expression Systems

Insect and Mammalian  
Cell Culture Media, Systems  
and Services

2537 2nd Street  
Davis CA 95618

t 530 747-2035 | 877 877-7421  
f 530 747-2034

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### Additional Products

Expression Systems offers a variety of media formulations for insect and mammalian cell culture. Additionally, Expression Systems provides tools to support the baculovirus and host cell expression system including baculovirus vectors and kits to determine baculovirus production.

	Cell Culture Media and Reagents
96-001	ESF 921™ Insect Cell Culture Medium, Protein Free
99-300	ESF AF™ Insect Cell Culture Medium, Animal Free
96-200	ESF 921™ Delta Series Insect Cell Culture Medium, Methionine Deficient
96-299	ESF 921™ Delta Series Insect Cell Culture Medium, Custom Amino Acid Deficient
95-020	Transfection Medium
95-006	Production Boost Additive
98-001	ESF SFM Serum Free Cell Culture Medium For Hybridoma, CHO & 293 Cells

	Molecular Tools
95-055	Transfection Reagent
91-001	BestBac™ 1.0 Linearized Baculovirus DNA
91-002	BestBac™ 2.0 $\Delta v$ -cath/chiA Linearized Baculovirus DNA
91-100	BestBac™ 1.0 Baculovirus Cotransfection Kit
91-200	BestBac™ 2.0 $\Delta v$ -cath/chiA Baculovirus Cotransfection Kit
97-101	Baculovirus Titering Kit
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.

