

# ESF 921 $\Delta$ Delta Series

## Amino Acid Deficient Insect Cell Culture Media

- 96-200 Methionine Deficient
- 96-275 All Amino Acid Deficient
- 96-299 Custom Amino Acid Deficient

ESF 921 Delta Series Formulations are based on the popular ESF 921 medium and are available in a variety of amino acid deficient formats used for structural analysis and protein labeling. Selenomethionine incorporation is a standard method for determining the phases in protein crystallography by single- or multiwavelength anomalous dispersion. To support the efforts of scientists using this methodology, Expression Systems supplies a Methionine Deficient medium formulation. Se-Met incorporation levels are reported to be typically 75% (Protein Science 16(9):2023-9 · October 2007) but can range from 70-100% using this medium.

Structural biologists are increasingly utilizing NMR spectroscopy to obtain information about the structure and dynamics of proteins and their complexes. The simplest and most cost-effective biosynthetic labeling method for protein solid-state NMR is to uniformly label all carbon and nitrogen atoms with  $^{13}\text{C}$  and  $^{15}\text{N}$ . Expression Systems stocks an all amino acid deficient variant within the Delta series to enable scientists interested in adding a source of isotopically-labeled amino acids. Custom formulations may also be requested specifying a formulation deficient in carbon sources or specific amino acids. Custom formulations require a 20L minimum order and are delivered in approximately 6 weeks.

### Specifications

Media type	Serum-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)



An **Advancion** Company

Insect and Mammalian  
Cell Culture Media, Systems  
and Services

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### Additional Products

Expression Systems offers a variety of media formulations for insect and mammalian cell culture. 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		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 $\Delta$ 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 $\Delta$ 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.



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