

# Sf9 RV-Free

## Rhabdovirus-Negative Insect Cell Line

Expression Systems' Sf9 RV-Free Insect Cell Line is a rhabdovirus-negative Sf9 cell line grown in suspension culture. This line has been adapted for growth in chemically defined medium and then cloned by single-cell printing. The cell line is appropriate for producing recombinant proteins, adeno-associated viruses (AAV) and viral-like particles (VLP). The cell line is currently available as a research cell bank.

A Master Cell Bank manufactured under GMP conditions and tested for adventitious agents will be available early 2024. Instructions for Use, with detailed protocols for optimal performance, are provided with the cell line. Expression Systems' ESF AdvanCD Chemically Defined Insect Cell Culture Medium is recommended for use and is optimized for excellent growth and productivity of the Sf9 RV-Free Insect Cell Line.

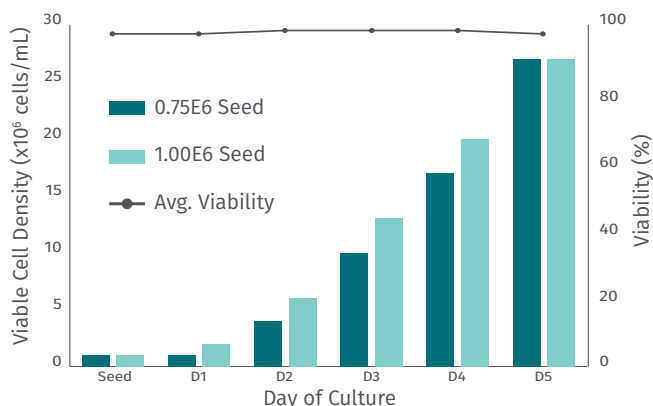
### Features and Benefits

- Rhabdovirus-negative cell line: Enhanced risk mitigation and biosafety profile
- Master Cell Bank manufactured following GMP and tested for adventitious agents (coming early 2024)
- Full traceability and documentation available for regulatory filings
- ESF AdvanCD Chemically Defined Insect Cell Culture Medium: A medium developed along with the Sf9 RV-Free Cell Line for optimal growth and expression
- Instructions for Use and expert technical support from the Expression Systems team

### Sf9 RV-Free Insect Cell Line Growth

Sf9 RV-Free Cells cultured in ESF AdvanCD Insect Cell Culture Medium demonstrate logarithmic growth over several days with doubling times of <24 hours. Culture viability remains in the high nineties with cell densities exceeding  $25 \times 10^6$  cells/mL within 5 days when seeded at either  $0.75$  or  $1.0 \times 10^6$  cells/mL. The obtainable cell density allows for a greater working range of logarithmic growth.

Sf9 RV-Free Insect Cell Line Growth in ESF AdvanCD Medium



### Important Legal Information

The Sf9 RV-Free Cell Line is sold by Expression Systems for research use only under a Limited Use Label License ("LULL"). A commercial license agreement must be purchased prior to use of the cell line, progeny, derivatives or products produced by the cell line in a clinical application or commercial purpose. Contact your local sales representative at [sales@expressionsystems.com](mailto:sales@expressionsystems.com) for licensing details.

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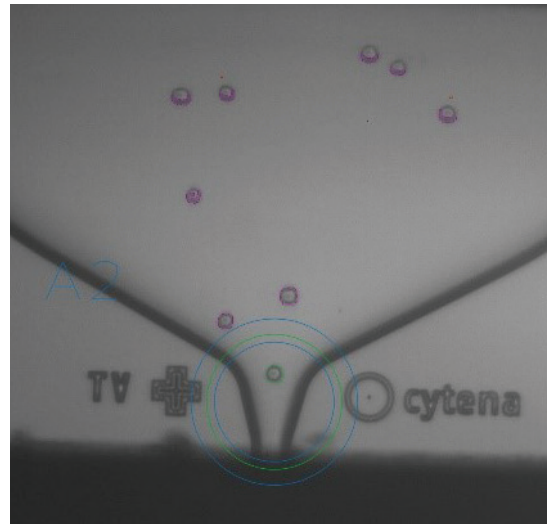
## Rhabdovirus-Negative Insect Cell Line

### Cell Line Origin

The Sf9 RV-Free Insect Cell Line descends from an isolate originally derived from ovarian tissue of *Spodoptera frugiperda* (Sf) pupae. The parental line, IPLB-SF-21 (renamed IPLB-SF-21 AE after adaptation into TC-100 medium), was established by J. Vaughn at the Insect Pathology Beltsville in Maryland, USA in the late 1960s. A subclone, designated Sf9, was established in 1983 by G. Smith and C. Cherry, and subsequently deposited with ATCC. A vial of ATCC CRL-1711 was obtained by Expression Systems and the Sf9 RV-Free Cell Line was cloned from lot 70020337.

### Product Components

Sf9 RV-Free Cells are provided in vials containing  $50 \times 10^6$  cells/mL. Cells are banked in ESF AdvanCD Chemically Defined Insect Cell Culture Medium and 10% DMSO.



### About Expression Systems

Founded in 1997, Expression Systems, now an Advancion company, is dedicated to supplying and servicing the cell culture and bio-industrial markets with innovative cell culture media formulations, as well as cell lines, molecular tools, reagents, and contract services. The company specializes in the baculovirus expression vector system (BEVS) and has deep expertise across the process from gene optimization to protein purification. Its well-characterized, high-performing line of insect cell culture media is recognized as the industry standard by structural biology researchers and biologics manufacturers to produce certain drug candidates, protein-based therapies, vaccines and gene therapies efficiently and cost-effectively. In November 2022, Expression Systems was acquired by Advancion, a leading global manufacturer of specialty life sciences ingredients, including TRIS AMINO™ tromethamine, TRIS AMINO™ HCl and HEPES buffers.

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