# Autographa californica nuclear polyhedrosis virus (AcNPV)

## VR-3414™

### Description

Autographa californica nuclear polyhedrosis virus strain E2 has been adapted for growth in Sf9 cells.

**Strain designation:** E2

### Storage Conditions

**Product format:** Frozen

**Storage conditions:** -70°C or colder

### Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

### BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

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ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

## Growth Conditions

**Host:** Sf9 (ATCC CRL-1711)
**Effects:** cell death; enlargement of nuclear polyhedra
**Complete medium:** Grace's Insect Medium Supplemented (Gibco/Invitrogen Cat. No. 11605-094 or equivalent) + 10% Heat Inactivated FBS (ATCC® Millipore Sigma Cat. No. F4135)
**Temperature:** 27°C
**Recommendations for infection:** This product is produced by co-cultivation of virus with fresh host cells. Prepare a bulk cell suspension the day of inoculation. Seed culture vessels at 2.0 – 3.0 x $10^5$ cells/mL. Calculate the volume of virus needed to achieve an optimal MOI (e.g. 0.1) and then dilute virus in virus growth medium to prepare the virus inoculum. Add virus inoculum to culture vessels. diluted to provide an optimal MOI (e.g. 0.03).
**Incubation:** 5-7 days at 27°C in a humidified non- $CO_2$ atmosphere, until CPE is

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progressed through 85 - 100% of the monolayer.

## Notes

A plaque purified variant of the 'Autographa californica' NPV wild type has been used experimentally in insect control. Also used to express foreign peptides and proteins. PIB = Polyhedral Inclusion Bodies. E2 is a member of the NPV subgenus Multiple Nucleocapsid Viruses (MNPV).

**Key Abbreviations:** °C, Degrees Celsius; $CO_2$, Carbon dioxide; FBS, Fetal bovine serum; MOI, Multiplicity of infection

## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Autographa californica nuclear polyhedrosis virus (AcNPV) (ATCC VR-3414)

## References

References and other information relating to this material are available at www.atcc.org.

## Warranty

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## Revision

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