



Nuclear polyhedrosis virus, *Autographa californica*

VR-992™

Description

Strain designation: OpMNPV MEM-75-STANDARD

Deposited As: nuclear polyhedrosis virus, *Orgyia pseudotsugata*

Storage Conditions

Product format: Freeze-dried

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.

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: *O. psuedotsugata* larvae; Host Range: *Orgyia leucostigma*, *Orgyia pseudotsugata*, *Orgyia cana*, and *Orgyia antiqua*

Effects: death of host animal; decreased feeding; systemic infection

Temperature: 30°C (25-30°C)

Incubation: 6-10 days

Handling Procedures

Mycoplasma contamination: Not detected

Notes

The OpMNPV MEM-75-STANDARD is the strain used for production of USDA Forest Service TM BioControl-1 (EPA number 27586-1). This is the first registered virus-based product for control of a forest insect.

Key Abbreviations: AU, activity unit, the weight in nanograms of the preparation that causes death in 50% (LD[50]) of t; AUGL, activity unit based on the response of the GL-1 strain of *O. psuedotsugata*; BES, N,N Bis (2 Hydroxyethyl)-2 Aminoethanesulfonic Acid; DOSS, Dioctyl Sulfosuccinate, Sodium; GL-1, Inbred strain of *O. psuedotsugata* established at Forestry Sciences Laboratory from eggs collected; gm, Gram; LD[50], Median lethal dose; MNPV, Multinucleocapsid, More than one nucleocapsid per envelope, usually from two to seven; NaCl, Sodium chloride; ng, Nanogram; NPV, Nuclear polyhedrosis virus; OB, Occlusion bodies; OpMNPV, Multinucleocapsid morphotype of NPV; OpSNPV, Uninucleocapsid morphotype of NPV; *Orgyia psuedotsugata*, Douglas-fir tussock moth; PIB, Polyhedral inclusion bodies; SNPV, uninucleocapsid, Single nucleocapsid per envelope

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Nuclear polyhedrosis virus, *Autographa californica* (ATCC VR-992)

References

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

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While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

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