



Adeno-associated virus 4

VR-646™

Description

Strain designation: none

Deposited As: Adeno-associated virus type 4

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.

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

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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: LLC-MK2 Derivative (ATCC CCL-7.1)

Host Range: monkey kidney cells; suckling mouse

Effects: cell rounding; cell sloughing; CPE

Complete medium:

EMEM (ATCC® 30-2003™) + 2% FBS (ATCC® 30-2020™) with adenovirus helper SV-15 (ATCC® VR-1449™)

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: For best results cells should be 24 to 48 hours old and 80% - 90% confluent (not 100% confluent) at the time of infection.

Incubation: 2 to 3 days at 37°C; a 5%CO₂ in air atmosphere is recommended.

Handling Procedures

Mycoplasma contamination: Detected

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Notes

Requires co-infection with helper adenovirus SV-15 (ATCC® VR-1449™) for replication. Helper virus may be inactivated at 56°C for 30 minutes.

NOTE: This preparation has tested positive for *Mycoplasma orale* by PCR. This strain of *Mycoplasma* does not grow in agar.

Key Abbreviations: AAV, Adeno-associated virus; AGMk, African green monkey kidney cells; bp, Base pairs; CF, Complement fixation; CO₂, Carbon dioxide; CPE, Cytopathic effect; D-17, Primary canine osteogenic sarcoma cells; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; i.u., Infectious units; LLC-MK2, Rhesus monkey kidney cells; Mkk, Monkey kidney; mL, Milliliter; MOI, Multiplicity of infection; NCBI, National Center for Biotechnology Information; PCR, Polymerase chain reaction; Pen, Penicillin; Strep, Streptomycin; SV, Simian virus; TC, Tissue culture; TCID₅₀, Median tissue culture infective dose

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Adeno-associated virus 4 (ATCC VR-646)

References

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

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