



Adeno-associated virus 2

VR-680™

Description

Adeno-associated virus 2 strain H is propagated in 293 [HEK-293] cells (ATCC CRL-1573) and depends on the helper virus Human adenovirus 2 (ATCC VR-846) for replication. This strain was isolated from a culture of adenovirus type 12 strain 97838 in KB cells and has applications in gene therapy research.

Strain designation: H

Deposited As: Adeno-associated virus type 2

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 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: 293 [HEK-293] (ATCC CRL-1573)

Effects: cell rounding; cell sloughing; CPE

Complete medium:

EMEM (ATCC 30-2003) + 2% FBS (ATCC 30-2020) with helper adenovirus type 2 (ATCC VR-846)

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: Plate cells 18-24 hours prior to infection and infect when cultures are 80-90% confluent. Remove medium and inoculate with a small volume of virus and helper virus (e.g. 1 mL per 25 cm²) diluted to provide an optimal MOI (e.g. 1.0 each for virus and helper virus). Adsorb 1-2 hours at 37°C in a humidified 5% CO₂ atmosphere. End adsorption by adding virus growth medium.

Incubation: 2-3 days at 37°C in a humidified 5% CO₂ atmosphere, until helper virus

CPE is progressed through 80-90% of the monolayer. AAV does not cause CPE.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Depends upon helper adenovirus type 2 (ATCC VR-846) for replication. Helper virus may be inactivated at 56°C for 30 minutes.

Key Abbreviations: °C, Degrees Celsius; AAV, Adeno-associated virus; CO₂, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; HEK-293, Human embryonic kidney cells; mL, Milliliter

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Adeno-associated virus 2 (ATCC VR-680)

References

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

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