ATCC

Product Sheet

Adeno-associated virus 3 (ATCC® VR-681™)

Please read this FIRST

Storage Temp.
-70°C or colder

Biosafety Level
2

Intended Use

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

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Adeno-associated virus 3 (ATCC® VR-681™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Strain: H
Classification: Parvoviridae, Dependovirus
Common Name: AAV-3H
Original Source:
Adenovirus 7, SV-40 hybrid E 46 plus strain infected HEK cells
Depositor: MD Hoggan

Propagation

Propagation Host:
Production Host: HEK-293 (ATCC CRL-1573).
Production Host: HEK-293 (ATCC® CRL-1573™)
Alternate Hosts: HEK cells, KB cells (ATCC CCL-17) and HeLa cells (ATCC CCL-2)

Effect on Host:
AAV produces no CPE. Helper adenovirus induces refractile rounding and cell sloughing.

Medium:
L-15 (ATCC® 30-2008™) + 2%FBS (ATCC® 30-2020™)

Growth Conditions
Temperature: 37°C
Recommendations for Infection: Plant cells 24-48 hours in advance and infect when cultures are 80-90% confluent. Remove medium and inoculate with helper adenovirus and a small volume (e.g. 1 mL per 25 cm^2) of virus diluted with VGM to provide a MOI of about 0.1-1.0. Adsorb 2 hours at 37°C in a humidified 5% CO_2 atmosphere. End adsorption by adding virus growth medium.
Incubation: Incubate infected culture for 2-3 days at 37°C temperature in a humidified 5% CO2 atmosphere, until CPE are well advanced through 90% of the culture.

Comments

Requires co-infection with helper adenovirus Adenovirus type 2 (ATCC® VR-846™) for replication. Helper virus may be inactivated after harvest in water bath at 56°C for 30 minutes. Cross reacts with AAV-2, no hemagglutinin detected.

References

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

Key Abbreviations

°C, degrees Celsius
bp, base pair
CO_2 (CO2), carbon dioxide
CPE, cytopathic effect
HEK, Human embryonic kidney cells
L-15, Leibovitz's L-15 Medium
MOI, multiplicity of infection
NCBI, National Center for Biotechnology Information
PFU, plaque forming unit
TC, tissue culture
$TCID_{50}$ (TCID[50]), the 50% infectious endpoint in cell culture, i. e. the dilution of virus that, under the conditions of the assay, can be expected to infect 50% of the culture vessels inoculated. Expressed as $TCID_{50}$ per volume inoculated per vessel. The reciprocal of the dilution required to yield the $TCID_{50}$ provides a measure of the titer (or infectivity) of a preparation.

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03/2011 KJ/MJA

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Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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