



Product Sheet

# Adeno-associated virus 1 (ATCC® VR-645™)

Please read this **FIRST**

Storage Temp.  
**-70°C or colder**

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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 1 (ATCC® VR-645™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
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Or contact your local distributor

## Description

**Strain:** none

**Classification:** Parvoviridae, Dependovirus, Adeno-associated virus-1

**Original Source:**

Pool of RhMk TC infected with SV-15 virus

**Depositor:** WP Parks

## Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

## Propagation

**Propagation Host:**

**Recommended Host:** HEK-293 (ATCC® CRL-1573™)

**Effect on Host:**

in vitro effects: Adeno-associated virus shows no independent cytopathic effects  
Adenovirus CPE, refractile rounding and sloughing; AAV shows no independent CPE.  
Yes, in vitro effects: Adenovirus cytopathic effects, refractile rounding and sloughing

**Medium:**

Virus growth medium: EMEM + 2%FBS (ATCC® 30-2002) + ATCC® VR-848™ (Adenovirus 7a)

**Growth Conditions**

**Atmosphere:** 5% CO<sub>2</sub> in air recommended

**Temperature:** 37.0°C

**Duration:** 2-4 days; For best results cells should be 24 to 48 hours old and 70-90% confluent (not 100% confluent).

## Comments

Depends upon adenovirus for replication. Suggest ATCC® VR-848™, Adenovirus type 7a as helper virus, which produces CPE on ATCC® CRL-1573™ cells. Helper virus may be inactivated by heating at 56°C for 30 minutes.

## References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

## Key Abbreviations

AAV, Adeno-associated virus

C, celsius

CF, colony forming

CO<sub>2</sub> (CO<sub>2</sub>), carbon dioxide

CPE, cytopathic effect

EMEM, Eagles minimum essential medium

FBS, fetal bovine serum

H, human

HEK-293, human embryonic kidney cells

i.u., infectious units

K, kidney

min., minute

mL, milliliter

PCR, polymerase chain reaction

Pen, penicillin

RhMk, rhesus monkey

Strep, streptomycin

SV, simian virus

TC, tissue culture

TCID<sub>50</sub> (TCID<sub>50</sub>), The Tissue Culture Infectious Dose


50% endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose



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50% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of a virus preparation.

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**Biosafety Level: 2**

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.

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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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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