



Product Sheet

## Bovine adenovirus 2 (ATCC® VR-314™)

Please read this **FIRST**



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### 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: Bovine adenovirus 2 (ATCC® VR-314™)

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  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

### Description

**Strain:** 19

**Classification:** Adenoviridae, Mastadenovirus, Ovine adenovirus A

**Original Source:**

Feces of normal calf

**Depositor:** M Klein

### Batch-Specific Information

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

### Propagation

**Propagation Host:**

primary bovine embryonic kidney cells

**Recommended Host:** MDBK cells (ATCC® CCL-22™)

bovine embryonic kidney cells; bovine kidney cells; MDBK cells (ATCC CCL-22)

**Effect on Host:**

Yes, in vitro effects: Cytopathic effects in tissue culture

CPE, rounding in plaques, degeneration and sloughing

**Medium:**

Virus growth medium: EMEM (ATCC® 30-2003) + 2% HS (ATCC® 30-2041)

**Growth Conditions**

Duration: 3-10 days

### Comments

Agglutinates mouse RBC. CPE may be minimal, frequently demonstrating less than 25% involvement of cell sheet, even with prolonged incubation. AAV reported to be present. Recognized reference strain: Pereira, H.G., et al., Virology 20: 613-620, 1963.

### References

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

### Key Abbreviations

°C (C), degree Celsius

AAV, adeno-associated virus

BEK, bovine embryonic kidney cells

BK, bovine kidney cells

bp, base pair

CO<sub>2</sub> (CO2), carbon dioxide

CPE, cytopathic effect

EMEM, Eagles Minimum Essential Medium

HS, horse serum

MDBK, bovine kidney cells

mL, milliliter

NCBI, National Center for Biotechnology Information

PCR, polymerase chain reaction

PHRI, Public Health Research Institute

Pr, primary

RBC, red blood cells

TC, tissue culture

TCID<sub>50</sub> (TCID[50]), 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 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.

USDA, United States Department of Agriculture

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Storage Temp.  
**-70°C or colder**

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Biosafety Level  
**2**

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7/2008 SF



### 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.

### Disclaimers

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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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