

**VR-313**<sup>™</sup>

## Description

Bovine adenovirus 1 is propagated in MDBK (NBL-1) cells (ATCC CCL-22). This animal virus was isolated from the feces of a normal calf. The presence of a low level contamination with bovine viral diarrhea virus (BVDV) has been confirmed with next generation sequencing (NGS).

**Strain designation:** 10

Deposited As: Bovine adenovirus type 1

## **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<sub>2</sub>

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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: MDBK (NBL-1) (ATCC CCL-22)

Effects: cell clustering; cell rounding; cell sloughing; CPE; cytoplasmic vacuolation

Complete medium:

EMEM (ATCC 30-2003) + 2% Horse Serum (ATCC 30-2041)

Temperature: 37°C

Atmosphere: 95% Air, 5% CO<sub>2</sub>

**Recommendations for infection:** For best results, infection should be performed on a 70-80% confluent, 18-48 hour old cellular monolayer. Prepare dilution of virus in minimum amount of volume (e.g. 1 mL per 25 cm $^2$ ). Wash monolayer with PBS or serum free medium prior to inoculation. Adsorb virus dilution for 1-2 hours at 37°C in a humidified 5% CO $_2$  atmosphere, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium.

Incubation: 4-10 days at 37°C in a humidified 5% CO<sub>2</sub> atmosphere, until CPE is

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progressed through 80% of the monolayer.

## **Handling Procedures**

Mycoplasma contamination: Not detected

#### Notes

REFERENCE STRAIN: Pereira HG et al. A short description of the Adenovirus group. Virology 20: 613-620, 1963.

Agglutinates rat RBC. CPE may be minimal, frequently demonstrating less than 25% involvement of cell sheet, even with prolonged incubation. AAV reported to be present.

**Key Abbreviations:** °C, Degrees Celsius; AAV, Adeno-associated virus; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; HS, Horse serum; MDBK, Madin Darby bovine kidney cells; PBS, Phosphate-buffered saline; RBC, Red blood cell

#### Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Bovine adenovirus 1 (ATCC VR-313)

#### References

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

## Warranty



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