

**Adenovirus 21, AV1645**

**Catalog No. NR-56500**

**For research use only. Not for use in humans.**

**Contributor:**

National Institute of Allergy and Infectious Diseases (NIAID),  
National Institutes of Health (NIH)

**Manufacturer:**

BEI Resources

**Product Description:**

Virus Classification: *Adenoviridae, Mastadenovirus B*

Species: Adenovirus 21 (also referred to as adenovirus B21)

Strain: AV1645

Original Source: Adenovirus (ADV) 21, AV1645 was isolated in 1956 from pediatric human conjunctival scrapings from a patient with trachoma in Saudi Arabia.

Comments: The NIAID isolate (V-221-011-514) was found to be contaminated with *Mycoplasma* and after reconstitution was treated with diethyl ether and passaged three times in HEK-293 (ATCC® CRL-1573™) cells to cure it of contamination, then grown an additional passage in HEK-293 to produce NR-56500. The complete genome of ADV 21, AV1645 has been sequenced (GenBank: [AY601633](#)).

Note: This strain replicates very slowly and is weakly oncogenic.

**Material Provided:**

Each vial contains approximately 1 mL of cell lysate and supernatant from *Homo sapiens* embryonic kidney cells (HEK-293; ATCC® CRL-1573™) infected with ADV 21, AV1645.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**

NR-56500 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

**Growth Conditions:**

Host: *Homo sapiens* embryonic kidney cells (HEK-293; ATCC® CRL-1573™)

Growth Medium: Eagle's minimum essential medium modified to contain Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate, and 1500 milligrams per liter sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent

Infection: Cells should be approximately 80 to 90% confluent

Incubation: 9 to 12 days at 37°C and 5% CO<sub>2</sub>

Cytopathic Effect: Cell rounding and detachment

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Adenovirus 21, AV1645, NR-56500."

**Biosafety Level: 2**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. [Biosafety in Microbiological and Biomedical Laboratories](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmbli5/index.htm](http://www.cdc.gov/biosafety/publications/bmbli5/index.htm).

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