

Adenovirus 21, AV1645

Catalog No. NR-56500

Product Description:

Adenovirus (ADV) 21, AV1645 was isolated in 1956 from pediatric human conjunctival scrapings from a patient with trachoma in Saudi Arabia. This strain replicates very slowly and is weakly oncogenic. NR-56500 lot 70051819 was produced by infecting *Homo sapiens* embryonic kidney cells (HEK-293; ATCC® CRL-1573™) with mycoplasma-cured reconstituted lyophilized material (BEI Resources lot V-221-011-514) and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 4 days at 37°C with 5% CO₂.

Passage History:

ChangC(8)/KB(6)/HEK(4) (Prior to deposit/Abbott Laboratories/BEI Resources); ChangC = Chang conjunctiva; KB = Human oral epidermoid carcinoma cells; HEK = *Homo sapiens* embryonic kidney cells (HEK-293)

Lot: 70051819

Manufacturing Date: 31MAY2022

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in HEK-293 Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 930 nucleotides)	≥ 98% identity with ADV 21, AV1645 (GenBank: AY601633)	99.9% identity with ADV 21, AV1645 (GenBank: AY601633)
Titer by TCID₅₀ Assay in HEK-293 Cells by Direct Fluorescent Antibody^{1,2} (9 days at 37°C with 5% CO ₂)	Report results	1.6 × 10 ⁷ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ³ Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C, aerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected	None detected None detected

¹The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ 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% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

²Using anti-Adeno DFA reagent (Millipore 5016)

³Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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