

Certificate of Analysis for NR-52015

Enterovirus Species D Type 68, USA/2018-23087 (produced in serum-free A549 cells)

Catalog No. NR-52015

This reagent is the property of the U.S. Government.

Product Description:

Enterovirus species D type 68 (EV-D68), USA/2018-23087 was isolated in 2018 from a nasopharyngeal swab of a human subject in the USA. The human subject was not suffering from acute flaccid myelitis. NR-52015 lot 70032741 was produced by infecting serum-free-adapted human lung carcinoma cells (A549; BEI Resources NR-52268) with BEI Resources seed material and incubating in PC-1™ Serum-Free Media (Lonza™ 344018) supplemented with 2% PC-1™ Supplement A (Lonza™ 344022) and 4 mM L-glutamine (ATCC® 30 2214™) for 4 days at 33°C and 5% CO₂.

Passage History:

RD(3)/A(2) (Prior to deposit at BEI Resources/BEI Resources); RD = Rhabdomyosarcoma cells; A = Serum-free-adapted A549 cells

Lot: 70032741 Manufacturing Date: 17MAR2020

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in A549 cells	Cell rounding and detachment	Cell rounding and detachment
Whole Genome Sequencing (~ 7320 nucleotides)	≥ 98% identity with EV-D68, USA/2018-23087 (GenBank: MK491180.1)	100% identity with EV-D68, USA/2018-23087 (GenBank: MK491180.1)
Sequencing of Species-Specific Region (~ 950 nucleotides)	≥ 98% identity with EV-D68, USA/2018-23087 (GenBank: MK491180.1)	100% identity with EV-D68, USA/2018-23087 (GenBank: MK491180.1)
Titer by TCID ₅₀ Assay in A549 cells by Cytopathic Effect ¹ (8 days at 33°C and 5% CO ₂)	Report results	8.9 × 10 ⁶ TCID ₅₀ per mL
Amplification of EV-D68 Sequence by RT-PCR	~ 1100 base pair amplicon	~ 1100 base pair amplicon
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic 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
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. ²Atlas, Ronald M. <u>Handbook of Microbiological Media</u>. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Heather Couch/

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Program Manager or designee, ATCC Federal Solutions

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