

Certificate of Analysis for NR-52013

Enterovirus Species D Type 68, US/MO/14-18947 (produced in serum-free A549 cells)

Catalog No. NR-52013

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

Product Description:

Enterovirus species D type 68 (EV-D68), US/MO/14-18947 was isolated from a nasopharyngeal swab taken from a human in Missouri, USA, in August, 2014. NR-52013 lot 70032737 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-1TM serum-free medium (LonzaTM 344018) containing 2% PC-1TM medium supplement (LonzaTM 344022) and 4 mM L-glutamine (ATCC® 30-2214) for 2 days at 33°C with 5% CO₂.

Passage History:

RD(4)/RD(2)A(2) (Prior to deposit at BEI Resources/BEI Resources); RD = Rhabdomyosarcoma cells; A = Serum-free adapted A549 cells

Lot: 70032737 Manufacturing Date: 06MAR2020

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in A549 cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (1000 nucleotides)	≥ 98% identity with EV-D68, US/MO/14-18947 (GenBank: KM851225.1)	99.8% identity with EV-D68, US/MO/14-18947 (GenBank: KM851225.1)
Titer by TCID ₅₀ Assay in A549 cells by Cytopathic Effect ¹ (7 days at 33°C with 5% CO ₂)	Report results	2.8 × 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 ²	No growth	No growth
Trypticase Soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C and 5% CO ₂	No growth	No growth
Mycoplasma Contamination		
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	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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