

Enterovirus D68, US/MO/14-18949, Mouse-Adapted

Catalog No. NR-51844

Product Description:

Enterovirus D68 (EV-D68), US/MO/14-18949, mouse-adapted was derived from EV-D68, US/MO/14-18949 by thirty sequential passages in AG129 mice followed by plaque purification in rhabdomyosarcoma cells (RD; ATCC® CCL-136™). NR-51844 lot 70029767 was produced by infecting RD cells and incubating in Eagle’s Minimum Essential Medium (ATCC® 30-2003) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 3 days at 33°C with 5% CO₂.

Passage History:

M(30)RD(7)/RD(3) (Prior to deposit at BEI Resources/BEI Resources); M = AG129 mice; RD = Rhabdomyosarcoma cells

Lot: 70029767

Manufacturing Date: 16DEC2019

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in RD cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 980 nucleotides)	≥ 98% identity with EV-D68, US/MO/14-18949 (GenBank: MH708882.1)	99.7% identity with EV-D68, US/MO/14-18949 (GenBank: MH708882.1)
Titer by TCID ₅₀ Assay in RD cells by Cytopathic Effect ¹ 7 days at 33°C with 5% CO ₂	Report results	8.9 × 10 ⁷ 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 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 and 5% CO ₂	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.

²Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Heather Couch/

Heather Couch

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