

Enterovirus D68, US/KY/14-18953

Catalog No. NR-49132

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Product Description:

Enterovirus D68 (EV-D68), US/KY/14-18953 was isolated from a nasopharyngeal swab taken from a human in Kentucky, USA, in August 2014.

Passage History:

RD3/RD3 (CDC/BEI Resources); RD = Human Rhabdomyosarcoma cells¹

Lot: 70030315²

Manufacturing Date: 30OCT2019

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in RD cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of VP1 Capsid Gene (~ 1010 nucleotides)	≥ 98% identity with EV-D68, US/KY/14-18953 (GenBank: KM851231.1)	99.2% identity with EV-D68, US/KY/14-18953 (GenBank: KM851231.1)
Titer by TCID₅₀ Assay in RD cells by Cytopathic Effect^{1,3,4}	Report results	2.8 × 10 ⁶ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ⁵ Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Blood agar, 37°C, aerobic 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

¹Human Rhabdomyosarcoma cells (RD; ATCC® CCL-136™)

²Lot 70030315 of NR-49132 was produced by infecting RD cells with BEI Resources NRS-49132 lot 63205989 and incubating in Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate and 1.5 g/L of sodium bicarbonate (ATCC® 30-2003) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 8 days at 33°C with 5% CO₂.

³The 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.

⁴Assay plates were incubated 5 days at 33°C with 5% CO₂.

⁵Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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