

Enterovirus Species A Type 71, Tainan/4643/1998

Catalog No. NR-471

Product Description:

Enterovirus species A type 71 (EV-A71), Tainan/4643/1998 was isolated in 1998 from a patient suffering from encephalomyelitis in Tainan, Taiwan. NR-471 lot 70053409 was produced by infecting rhabdomyosarcoma cells (RD; ATCC® CCL-136™) with EV-A71, Tainan/4643/1998 (BEI Resources seed lot 7746373) and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 3 days at 37°C with 5% CO₂.

Passage History:

?(?)/RD(3) (Prior to deposit at BEI Resources/BEI Resources); ? = Unknown cells, unknown passage number; RD = Rhabdomyosarcoma cells

Lot: 70053409

Manufacturing Date: 27JUN2022

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in RD Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 650 nucleotides)	≥ 98% identity with EV- A71), Tainan/4643/1998 (GenBank: AF304458.1)	100% identity with EV- A71), Tainan/4643/1998 (GenBank: AF304458.1)
Titer by TCID ₅₀ Assay in RD Cells by Indirect Immunofluorescence Assay ^{1,2} (9 days at 37°C with 5% CO ₂)	Report results	1.6 × 10 ⁸ 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 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 Pan-enterovirus Reagent (Blend) (Light Diagnostics™ catalog no. 3360)

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

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