

Enterovirus 71, Tainan/4643/1998, Mouse-Adapted

Catalog No. NR-51845

Product Description:

Enterovirus 71 (EV-71), Tainan/4643/1998, mouse-adapted was derived from EV-71, Tainan/4643/1998 which had undergone four serial passages in mice (BEI Resources NR-472). The virus was further adapted by six sequential passages in AG129 mice followed by plaque purification in rhabdomyosarcoma cells.

Passage History:

M(10)RD(7)/RD(2) (Prior to deposit at BEI Resources/BEI Resources); M = Mice; RD = Rhabdomyosarcoma cells¹

Lot: 70029769²

Manufacturing Date: 25OCT2019

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in RD cells ¹	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 870 nucleotides)	≥ 98% identity with EV-71, Tainan/4643/1998 (GenBank: AF304458.1)	99.5% identity with EV-71, Tainan/4643/1998 (GenBank: AF304458.1)
Titer by TCID ₅₀ Assay in RD cells by Indirect Fluorescent Antibody (IFA) Assay ^{1,3,4,5}	Report results	8.9 × 10 ⁸ TCID ₅₀ per mL
Amplification of EV71 Sequence by RT-PCR	~ 890 base pair amplicon	~ 890 base pair amplicon
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ⁶ 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

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

²Grown 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 3 days at 37°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 7 days at 37°C with 5% CO₂

⁵Detected using Pan-Enterovirus Reagent (Light Diagnostics™ 3360)

⁶Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Heather Couch/
Heather Couch

20 JAN 2020

Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

