

Human Parechovirus A Type 2, Williamson

Catalog No. NR-59439

Product Description:

Human Parechovirus A type 2, Williamson was isolated from a rectal swab of a pediatric patient with diarrhea in Ohio, USA, in 1956. It was originally classified as Echovirus 23. NR-59439 was produced by infecting human colon adenocarcinoma cells (HT-29; ATCC® HTB-38™) with the deposited material and incubating in McCoy's 5A Medium (ATCC® 30-2007™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 2 days at 37°C with 5% CO₂ to produce this lot.

Passage History:

MkK(10, including 2 plaque passages)/ HT-29(4)/ HT-29(1); (University of Kansas Medical Center/ATCC/BEI Resources); MkK = Primary monkey kidney cells

Lot: 70062306

Manufacturing Date: 02MAY2024

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in HT-29 Cells	Cell rounding and detachment	Cell rounding and detachment
Next-Generation Sequencing (NGS) of Complete Genome Using Illumina® iSeq™ Platform	≥ 98% identity with HPeV-2, Williamson (GenBank: AJ005695.1)	99.51% identity with HPeV-2, Williamson (GenBank: AJ005695.1)
Titer by TCID ₅₀ Assay in HT-29 Cells by Cytopathic Effect ¹ (8 days at 37°C with 5% CO ₂)	Report results	1.6 × 10 ⁹ TCID ₅₀ /mL
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, 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
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 of 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.

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