

Mayaro Virus, TRVL 4675

Catalog No. NR-49913

Product Description: Mayaro virus (MAYV), TRVL 4675 was isolated from the serum of a human in Mayaro County, Trinidad on August 23, 1954. Vial contains cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells¹ infected with MAYV, TRVL 4675.

Passage History: SM13V1/V7 (Prior to deposit at BEI Resources/BEI Resources); SM = Suckling mice; V = Vero cells¹

Lot^{2,3}: 70017163

Manufacturing Date: 13JUL2018

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero cells¹	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 760 nucleotides)	≥ 98% identity with MAYV, TRVL 4675 (GenBank: AF339482.1)	100% identity with MAYV, TRVL 4675 (GenBank: AF339482.1)
Titer by TCID₅₀ Assay^{4,5} in Vero cells¹ by Cytopathic Effect	Report results	1.6 × 10 ⁸ TCID ₅₀ per mL
Amplification of Mayaro Virus Sequence by RT-PCR	~ 980 base pair amplicon	~ 980 base pair amplicon
Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 37°C and 26°C, aerobic 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

¹Vero: ATCC® CCL-81™

²The first three virus passages at BEI Resources were performed in the presence of Mycoplasma Removal Reagent (MP Biomedicals 30-500-44) in order to remove contaminating mycoplasma.

³Grown 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 2 days at 37°C with 5% CO₂

⁴The 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.

⁵5 days at 37°C and 5% CO₂

⁶Atlas, 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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BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370

Fax: 703-365-2898