

Mayaro Virus, BeAn343102

Catalog No. NR-49909

Product Description: Mayaro virus (MAYV), BeAn343102¹ was isolated from a monkey in Para, Brazil on May 22, 1978. Each vial contains cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero)² infected with MAYV, BeAn343102.

Passage History: SM4V1/V7 (Prior to deposit at BEI Resources/BEI Resources); SM = suckling mice, V = Vero cells

Lot³: 70013051

Manufacturing Date: 01MAR2018

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero Cells ²	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 770 nucleotides)	Consistent with Mayaro virus, BeAn343102	100% identity with Mayaro virus, BeAn343102 (GenBank: KP842802.1)
Titer by TCID ₅₀ Assay ^{4,5} in Vero Cells ² by Cytopathic Effect	Report results	2.8 × 10 ⁷ TCID ₅₀ per mL
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 Sheep blood agar, 37°C, aerobic Sheep 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 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

¹Also referred to as BE AN 343102 or BeAn 343102

²Vero cells: ATCC® CCL-81™

³NR-49909 was produced by inoculation of NRS-49909 lot 63856765 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.

⁵6 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.

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