

La Crosse Virus, R97841d

Catalog No. NR-51644

Product Description:

La Crosse virus (LACV), R97841d was isolated from brain of a 6-year-old male human child in Tennessee, USA in July 2012. NR-51644 lot 70029001 was produced by infecting *Cercopithecus aethiops* kidney epithelial cells (Vero E6; ATCC® CRL-1586™) and incubating in Dulbecco's Modified Eagle's Medium (DMEM; ATCC® 30-2002) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 4 days at 37°C with 5% CO₂.

Passage History:

V(1)/VE6(2) (Prior to deposit at BEI Resources/BEI Resources); V = Vero cells; VE6 = Vero E6 cells

Lot: 70029001

Manufacturing Date: 28JAN2020

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero E6 Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 920 nucleotides)	≥ 98% identity with LACV	≥ 98% identity with LACV ¹
Titer by TCID ₅₀ Assay in Vero E6 Cells by Cytopathic Effect ² (5 days at 37°C with 5% CO ₂)	Report results	1.6 × 10 ⁸ TCID ₅₀ per mL
Amplification of LACV Sequence by RT-PCR	~ 990 base pair amplicon	~ 990 base pair amplicon
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
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

¹Sequence information for LACV, R97841d is not available in the NCBI database; nucleotide sequence obtained for NR-51644 lot 70029001 matched ≥ 98% to LACV M glycoprotein sequences and is 100% identical to the closely related LACV segment M glycoprotein gene, complete cds (GenBank: KP271105.1).

²The 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.

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

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