

Langat Virus, TP21

Catalog No. NR-51658

Product Description:

Langat virus (LGTV), TP21 was isolated from an *Ixodes granulatus* tick in Ulu Langat Forest Reserve, Malaysia on April 17, 1956. NR-51658 lot 70028340 was grown on Vero E6 cells (*Cercopithecus aethiops* kidney cells; ATCC® CRL-1586™) in Dulbecco's Minimum Essential Medium (DMEM; ATCC® 30-2002) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 8 days at 37°C with 5% CO₂.

Passage History: X(?)SM(4)V(1)/VE6(2) (Prior to deposit with BEI Resources/BEI Resources); X = Unknown; SM = Suckling mice; V = Vero cells; VE6 = Vero E6 cells

Lot: 70028340

Manufacturing Date: 03OCT2019

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero E6 cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 930 nucleotides)	≥ 98% identity with LGTV, TP21 (GenBank: EU790644.1)	99.9% identity with LGTV, TP21 (GenBank: EU790644.1)
Titer by TCID ₅₀ Assay in Vero E6 cells by Cytopathic Effect ¹	Report results	5 × 10 ⁶ TCID ₅₀ per mL in 11 days at 37°C with 5% CO ₂
Amplification of LGTV Sequence by RT-PCR	~ 1010 base pair amplicon	~ 1010 base pair amplicon
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 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

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 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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