

Langat Virus, TP21

Catalog No. NR-51658

Product Description:

Langat virus (LGTV), TP21 was isolated from an *Ixodes granulatus* tick in the Ulu Langat Forest Reserve, Malaysia, on April 17, 1956. NR-51658 was produced by infecting *Chlorocebus aethiops* kidney epithelial cells (Vero E6; ATCC® CRL-1586™) with BEI Resources seed lot 70028341 and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 7 days at 37°C with 5% CO₂ to produce this lot.

Passage History:

X(?)SM(4)V(1)/VE6(3) (Prior to deposit with BEI Resources/BEI Resources); X = Unknown; SM = Suckling mice; V = Vero cells; VE6 = Vero E6 cells

Lot: 70070863

Manufacturing Date: 30AUG2024

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero E6 Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 880 nucleotides)	≥ 98% identity with LGTV, TP21 (GenBank: EU790644.1)	100% identity with LGTV, TP21 (GenBank: EU790644.1)
Titer by TCID₅₀ Assay in Vero E6 Cells by Cytopathic Effect¹ (8 days at 37°C with 5% CO ₂)	Report results	8.9 × 10 ⁶ 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 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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