

Chikungunya Virus, 181/25

Catalog No. NR-56523

Product Description:

Chikungunya virus (CHIKV), 181/25 is a live-attenuated derivative of strain AF15561, which was originally isolated from a human in Thailand in 1962. NR-56523 lot 70050553 was produced by infecting *Cercopithecus aethiops* (African green monkey) kidney epithelial cells (Vero E6; ATCC CRL-1586™) with BEI Resources seed lot 58507551 and incubating in DMEM (ATCC 30-2002™) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 4 days at 37°C with 5% CO₂.

Passage History:

M(18)/VE(2) (Prior to deposit (this is an attenuated strain)/BEI Resources); M = MRC-5; VE = Vero E6

Lot: 70050553

Manufacturing Date: 28FEB2022

TEST	SPECIFICATIONS	RESULTS
Sequencing of Species-Specific Region (~ 1080 nucleotides)	≥ 98% identity with chikungunya virus (GenBank: MW473668.1)	100% identity with chikungunya virus (GenBank: MW473668.1)
Titer by TCID₅₀ Assay in Vero E6 Cells by Cytopathic Effect¹ (7 days at 37°C and 5% CO ₂)	Report results	8.9 × 10 ⁷ TCID ₅₀ per 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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