SUPPORTING INFECTIOUS DISEASE RESEARCH

Chikungunya Virus, S-27

Catalog No. NR-13220

Product Description:

Chikungunya virus (CHIKV), S-27 is the prototype of the Central/East African genotype. NR-13220 was produced by infecting *Chlorocebus aethiops* kidney epithelial cells (Vero E6; ATCC[®] CRL-1586TM) with BEI Resources seed lot 61216442 and incubating 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[®] 30-2003TM) supplemented with 2% fetal bovine serum (ATCC[®] 30-2020TM) for 2 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

Passage History:

U(U)/VE6(3) (Prior to deposit at BEI Resources/BEI Resources); U = Unknown; VE6 = Vero E6 cells

Lot: 70066852

Manufacturing Date: 21MAR2024

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero E6 Cells	Cell rounding and detachment	Cell rounding and detachment
Next-Generation Sequencing (NGS) of Complete Genome Using Illumina [®] iSeq™ 100 Platform	≥ 98% sequence identity with CHIKV, S-27 (GenBank: AF369024.2)	99.9% sequence identity with CHIKV, S-27 (GenBank: AF369024.2)
Titer by TCID ₅₀ Assay in Vero E6 Cells by Cytopathic Effect ¹ (6 days at 37°C with 5% CO ₂)	Report results	1.6 × 10 ⁸ TCID₅₀/mL
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic ²	No growth	No growth
Trypticase Soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C, aerobic	No growth	No growth
Mycoplasma Contamination		
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	None detected	None detected
¹ The Tissue Culture Infectious Dose 50% (TCID ₁₁) and point is the 50% infectious and point in cell culture. The TCID ₁₁ is the dilution of virus that under		

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. <u>Handbook of Microbiological Media</u>. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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Technical Manager or designee, ATCC Federal Solutions

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