

Chikungunya Virus, S-27

Catalog No. NR-13220

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Product Description: Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero E6)¹ infected with chikungunya virus, S-27.

Lot²: 61216441

Manufacturing Date: 12OCT2012

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity Using Vero E6 Cells ¹	Report results	Rounding and detachment
Sequencing of Species-Specific Region (~ 1020 nt)	Consistent with chikungunya virus	100% identity to chikungunya virus (GenBank: AF369024)
Titer by TCID ₅₀ Assay ^{3,4} in Vero E6 Cells ¹	Report results	8.9 × 10 ⁷ TCID ₅₀ per mL
Functional Activity by RT-PCR Assay	~ 1180 bp amplicon	~ 1180 bp amplicon
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 37°C and 26°C, aerobic 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 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

¹Vero E6 (Vero C1008) cells: ATCC® CRL-1586™

²Grown 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® 30-2003) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 2 days at 37°C with 5% CO₂.

³The 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.

⁴5 days at 37°C and 5% CO₂

⁵Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 02 APR 2013

Signature: 

Title: Technical Manager, BEI Authentication or designee

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