

**Chikungunya Virus, SV 0442-95**

**Catalog No. NR-49906**

**Product Description:** Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells<sup>1</sup> infected with chikungunya virus (CHIKV), SV 0442-95

**Passage History:** MK1V1/V3 (Prior to deposit at BEI Resources/BEI Resources); MK# = Number of passages in LLC-MK2 cells; V# = Number of passages in Vero cells<sup>2</sup>

**Lot<sup>3</sup>: 64108461**

**Manufacturing Date: 09JUN2016**

TEST	SPECIFICATIONS	RESULTS
<b>Infectivity in Vero E6 Cells</b>	Report results	Cell rounding and detachment
<b>Sequencing of Species-Specific Region (939 nucleotides)</b>	Consistent with CHIKV	Consistent with CHIKV <sup>4</sup>
<b>Titer by TCID<sub>50</sub> Assay<sup>5,6</sup> in Vero E6 Cells<sup>1</sup></b>	Report results	1.6 × 10 <sup>7</sup> TCID <sub>50</sub> per mL
<b>Amplification of CHIKV Sequence by RT-PCR</b>	~ 1070 bp amplicon	~ 1070 bp amplicon
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>7</sup> , 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 <sub>2</sub>	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
<b>Mycoplasma Contamination</b> 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

<sup>1</sup>Vero 76, clone E6; ATCC® CRL-1586™

<sup>2</sup>The second virus passage at BEI Resources was performed by lipofectamine-mediated transfection of extracted viral nucleic acid in order to remove contaminating mycoplasma.

<sup>3</sup>Grown 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% CO<sub>2</sub>

<sup>4</sup>Sequence information for CHIKV, SV 0442-95 is not available in the NCBI database; nucleotide sequence obtained for NR-49906, Lot No. 64108461 is ~ 99% identical to CHIKV, SV0444-95, which was also isolated from a human in Bangkok, Thailand in 1995.

<sup>5</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> 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% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of a virus preparation.

<sup>6</sup>4 days at 37°C and 5% CO<sub>2</sub>

<sup>7</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

**Date:** 30 MAR 2017

**Signature:** 

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