

# Spondweni Virus, Chuku

Catalog No. NR-51972

## Product Description:

Spondweni virus (SPOV), Chuku was isolated from the blood of a febrile human in Nigeria in 1952. NR-51972 lot 70032789 was produced by infecting *Aedes albopictus* cells (C6/36; ATCC® CRL-1660™) with the deposited material and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 5 days at 28°C with 5% CO<sub>2</sub>, then incubating the harvested material in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for an additional 5 days at 28°C with 5% CO<sub>2</sub>.

## Passage History:

Unknown(X)/LLC-MK2(1)/C6/36(2) (Prior to deposit at Arbovirus Reference Collection (ARC)/ARC//BEI Resources); LLC-MK2 = *Macaca mulatta* kidney epithelial cells; C6/36 = *Aedes albopictus* cells

Lot: 70032789

Manufacturing Date: 28JUN2022

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in C6/36 Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 870 nucleotides)	≥ 98% identity with SPOV, Chuku (GenBank: KX227369)	100% identity with SPOV, Chuku (GenBank: KX227369)
Titer by TCID <sub>50</sub> Assay in C6/36 Cells by Cytopathic Effect <sup>1</sup> (8 days at 28°C with 5% CO <sub>2</sub> )	Report results	2.8 × 10 <sup>7</sup> TCID <sub>50</sub> per mL
Amplification of SPOV Sequence by RT-PCR	~ 900 base pair amplicon	~ 900 base pair amplicon
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>2</sup> 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

<sup>1</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>2</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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