

**Seoul Virus, Tchoupitoulas 401613**

**Catalog No. NR-9379**

**Product Description:**

Seoul virus (SEOV), Tchoupitoulas 401613 was isolated from the pancreas of a brown rat (*Rattus norvegicus*) near the Mississippi River in New Orleans, Louisiana, USA in 1984. SEOV, Tchoupitoulas 401613 deposited material was passaged three times in mycoplasma removal agent (MRA; MP Biomedicals™ 3050044) in order to remove contaminating mycoplasma. NR-9379 lot 70004099 was produced by infecting *Cercopithecus aethiops* kidney epithelial cells (Vero E6; ATCC® CRL-1586™) with the MRA-treated material and incubating in Eagle's Minimum Essential Medium (ATCC 30-2003™) supplemented with 2% fetal bovine serum (ATCC 30-2020™) for several passages, concluding with an incubation of 14 days at 37°C with 5% CO<sub>2</sub>.

**Passage History:**

X(?)/VE(7) (Prior to deposit at BEI Resources/BEI Resources); X = Unknown; VE = Vero E6 cells

**Lot: 70004099**

**Manufacturing Date: 11DEC2018**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity in Vero E6 Cells</b>	Cell rounding and detachment	Cell rounding and detachment
<b>Sequencing of Species-Specific Region</b> (~ 360 nucleotides)	≥ 98% identity with SEOV, Tchoupitoulas/POR segment S nucleocapsid protein gene (GenBank: KU204960.2)	100% identity with SEOV, Tchoupitoulas/POR segment S nucleocapsid protein gene (GenBank: KU204960.2)
<b>Titer by TCID<sub>50</sub> Assay in Vero E6 Cells by Cytopathic Effect<sup>1</sup></b> (14 days at 37°C with 5% CO <sub>2</sub> )	Report results	8.9 × 10 <sup>5</sup> TCID <sub>50</sub> per mL
<b>Amplification of SEOV Sequence by RT-PCR</b>	~ 370 base pair amplicon	~ 370 base pair amplicon
<b>Sterility (21-day incubation)</b> 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
<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>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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