

Seoul Virus, Thailand 605

Catalog No. NR-9383

Product Description:

Seoul virus (SEOV), Thailand 605 deposited material was passaged three times in mycoplasma removal agent (MRA; MP Biomedicals™ 3050044) in order to remove contaminating mycoplasma. NR-9383 lot 70004101 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 14 days at 37°C with 5% CO₂.

Passage History:

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

Lot: 70004101

Manufacturing Date: 11DEC2018

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero E6 Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 350 nucleotides)	≥ 98% identity with SEOV	≥ 98% identity with SEOV ¹
Titer by TCID₅₀ Assay in Vero E6 Cells by Cytopathic Effect² (14 days at 37°C with 5% CO ₂)	Report results	2.8 × 10 ⁵ TCID ₅₀ per mL
Amplification of SEOV Sequence by RT-PCR	~ 370 base pair amplicon	~ 370 base pair amplicon
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ³ 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

¹Sequence information for SEOV, Thailand 605 is not available in the NCBI database; nucleotide sequence obtained for NR-9383 lot 70004101 is ≥ 98% identical to numerous SEOV strains.

²The 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.

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

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