

Product Information Sheet for NR-9383

Seoul Virus, Thailand 605

Catalog No. NR-9383

For research use only. Not for human use.

Contributor:

Chil-Yong Kang, Dr., Department of Microbiology and Immunology, University of Ottawa, Ontario, Canada and Charles H. Calisher, Ph.D., Department of Microbiology, Immunology and Pathology, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, Colorado, USA

Manufacturer:

BEI Resources

Product Description:

<u>Virus Classification</u>: *Hantaviridae*, *Orthohantavirus*

Species: Seoul virus (also referred to as Seoul

orthohantavirus)

Strain/Isolate: Thailand 605

<u>Comments</u>: In order to remove contaminating mycoplasma, the deposited material was passaged three times with mycoplasma removal agent.

Seoul virus (SEOV) is a spherical enveloped RNA virus with a segmented negative-sense, single-stranded RNA genome with S (small), M (medium) and L (large) segments encoding the nucleoprotein, envelope glycoproteins and the L protein or RNA-dependent RNA polymerase, respectively. SEOV is the most widely distributed hantavirus worldwide because of the omnipresence of its rodent hosts: brown (*Rattus norvegicus*) and black (*Rattus rattus*) rats. Transmission to humans occurs via the inhalation of infectious viral particles shed in the rodent excreta. SEOV belongs to the Old World hantaviruses and mainly targets human kidney causing milder forms of hemorrhagic fever with renal syndrome (HFRS) with infection often associated with the presence of hepatitis. 1.3

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells infected with SEOV, Thailand 605.

<u>Note</u>: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-9383 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

<u>Host</u>: *Cercopithecus aethiops* kidney epithelial cells (Vero E6; ATCC® CRL-1586™)

Growth Medium: 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 supplemented with 2% fetal bovine serum, or equivalent

Infection: Cells should be 70% to 90% confluent

Incubation: 14 days at 37°C and 5% CO₂

<u>Cytopathic Effect</u>: Cell rounding and sloughing may or may not be observed; confirmation of infectivity by RT-PCR is recommended.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Seoul Virus, Thailand 605, NR-9383."

Biosafety Level: 3

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a

BEI Resources www.beiresources.org E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898



Product Information Sheet for NR-9383

license is required. U.S. Government contractors may need a license before first commercial sale.

References:

- Avšič-Županc, T., A. Saksida and M. Korva. "Hantavirus Infections." <u>Clin. Microbiol. Infect.</u> 21S (2015): e6-e16. PubMed: 24750436.
- Clement, J., et al. "Clinical Characteristics of Ratborne Seoul Hantavirus Disease." <u>Emerg. Infect. Dis.</u> 25 (2019): 387-388. PubMed: 30666956.
- Clement, J., et al. "Wild Rats, Laboratory Rats, Pet Rats: Global Seoul Hantavirus Disease Revisited." <u>Viruses</u> 11 (2019): 652. PubMed: 31319534.

ATCC[®] is a trademark of the American Type Culture Collection.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898