Seoul Virus, Houston Rat #4

Catalog No. NR-9384

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:

Virus Classification: Hantaviridae, Orthohantavirus
Species: Seoul virus (also referred to as Seoul orthohantavirus)
Strain/Isolate: Houston rat #4
Comments: 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.1 SEOV is the most widely distributed hantavirus worldwide due to the omnipresence of its rodent hosts: brown (Rattus norvegicus) and black (Rattus rattus) rats.2,3 Transmission to humans occurs via the inhalation of infectious viral particles shed in the rodent excreta.2,3 SEOV belongs to the Old World hantaviruses and mainly targets human kidney causing milder forms of hemorrhagic fever with renal syndrome (HFRS) in addition to 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, Houston rat #4.

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

Packaging/Storage:
NR-9384 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:
Host: 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
Cytopathic Effect: 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, Houston Rat #4, NR-9384.”

Biosafety Level: 3

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References:

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