SUPPORTING INFECTIOUS DISEASE RESEARCH

Toscana Virus, ISS Phl 3

Catalog No. NR-51664

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Virus Classification: Phenuiviridae, Phlebovirus Toscana virus (also referred to as Naples Species: phlebovirus, Sandfly fever virus)

Strain/Isolate: ISS Phl 3

Original Source: Toscana virus (TOSV), ISS PhI 3 was isolated from a sandfly (Phlebotomus perniciosus) collected in Monte Argentario, Toscana, Italy on July 17, 1971.¹

TOSV is an arthropod-borne virus with a negative-sense, single-stranded RNA genome that consists of three segments- large, encoding RNA-dependent RNA polymerase; medium, encoding the envelope glycoproteins; small, encoding the nucleoproteins.² TOSV has been isolated from sandfly (Phlebotomus perniciosus and Phlebotomus perfiliewi), wild animals and humans in Italy, France, Spain and from Mediterranean countries. The role of vertebrates in the maintenance of the transmission cycle of TOSV, however, remains unclear.^{2,3} A substantial proportion of human TOSV infections are asymptomatic but clinical infections can range in severity from self-limiting febrile illness to severe meningoencephalitis.4

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from Cercopithecus aethiops kidney epithelial cells infected with TOSV, ISS Phl 3.

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

Packaging/Storage:

NR-51664 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: Dulbecco's Modified Eagle's Medium modified to contain 4 mM L-glutamine, 4500 mg/L glucose, 1 mM sodium pyruvate, and 1.5 g/L sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent

Infection: Cells should be 70% to 90% confluent Incubation: 2 to 9 days at 37°C and 5% CO2 Cytopathic Effect: Cell rounding and sloughing

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Toscana Virus, ISS Phl 3, NR-51664."

Biosafety Level: 2

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.

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References:

- Russell, B. J., Personal Communication. 1.
- Charrel, R. N., et al. "Emergence of Toscana Virus in 2. Europe." <u>Emerg. Infect. Dis.</u> 11 (2005): 1657-1663. PubMed: 16318715.

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- Di Nicuolo, G., et al. "Toscana Virus Central Nervous System Infections in Southern Italy." <u>J. Clin. Microbiol.</u> 43 (2005): 6186-6188. PubMed: 16333126.
- Valassina, M., et al. "Evidence of Toscana Virus Variants Circulating in Tuscany, Italy, During the Summers of 1995 to 1997." <u>J. Clin. Microbiol.</u> 36 (1998): 2103-2104. PubMed: 9650974.

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