

Sandfly Fever Naples Virus

Catalog No. NR-15571

For research use only. Not for human use.

Contributor:

Sidney E. Grossberg, M.D., Professor, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, Milwaukee, Wisconsin, USA

Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Bunyaviridae*, *Phlebovirus*

Species: Sandfly fever Naples virus (SFNV)

Comments: This isolate was deposited to the ATCC® after two passages in suckling mice and was adapted to growth in tissue culture by several passages in *Cercopithecus aethiops* (*C. aethiops*) kidney epithelial cells (Vero; ATCC® CCL-81™).

SFNV infections are endemic in the Middle East, Central Asia, and several Mediterranean countries.¹ The virus is transmitted by the insect vectors *Phlebotomus papatasi* and *Phlebotomus perfiliewi*,² and causes a febrile illness of several days duration characterized by headache and marked leukopenia.³ The virus was first isolated from a febrile patient in Italy in 1944.⁴

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from *C. aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) infected with SFNV.

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

Packaging/Storage:

NR-15571 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: Vero cells (ATCC® CCL-81™)

Growth Medium: Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine and 1 mM sodium pyruvate supplemented with 8% to 10% fetal bovine serum, or equivalent

Infection: Passage virus by co-cultivation; remove host cells from flasks with trypsin; thaw virus rapidly in a 37°C water

bath; add diluted virus directly to cells and plate the cell-virus mixture in new flasks.

Incubation: 2 to 14 days at 37°C and 5% CO₂

Cytopathic Effect: Cell rounding and degeneration

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Sandfly Fever Naples Virus, NR-15571."

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/bmb15/index.htm.

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References:

1. Tesh, R. B., et al., "Serological Studies on the Epidemiology of Sandfly Fever in the Old World." Bull. World Health Organ. 54 (1976): 663-674. PubMed: 829416.
2. Tesh, R. B., "The Genus *Phlebovirus* and its Vectors." Ann. Rev. Entomol. 33 (1988): 169-181. PubMed: 2849886.
3. Dionisio, D. et al., "Epidemiological, Clinical and Laboratory Aspects of Sandfly Fever." Curr. Opin. Infect. Dis. 16 (2003): 383-388. PubMed: 14501989.
4. Sabin, A. B., "Recent Advances in our Knowledge of Dengue and Sandfly Fever." Am. J. Trop. Med. Hyg. 4 (1955): 198-207. PubMed: 14361897.

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