

Chikungunya Virus, S-27

Catalog No. NR-13220

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Togaviridae*, *Alphavirus*

Species: Chikungunya virus

Strain/Isolate: S-27

Original Source: Chikungunya virus (CHIKV), S-27 is the prototype of the Central/East African genotype.¹

Comments: The complete genome of CHIKV, S-27, African prototype has been sequenced (GenBank: [AF369024.2](#)).²

Chikungunya fever is a febrile illness often accompanied by relapsing and incapacitating polyarthralgia. In recent years, CHIKV has spread widely throughout Africa and Asia resulting in morbidity in millions of infected individuals. There are currently no recognized antiviral therapies or vaccines with which to control infections due to CHIKV.³

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from *Chlorocebus aethiops* kidney epithelial cells infected with CHIKV, S-27.

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

Packaging/Storage:

NR-13220 was packaged aseptically in 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: *Chlorocebus aethiops* kidney epithelial cells (Vero; 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 80% to 90% confluent

Incubation: 2 to 6 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: Chikungunya Virus, S-27, NR-13220."

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 (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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References:

1. Calisher, C. H., Personal Communication.
2. Khan, A. H., et al. "Complete Nucleotide Sequence of Chikungunya 12466484 Virus and Evidence for an Internal Polyadenylation Site". *J. Gen. Virol.* 83 (2002): 3075-3084. PubMed: 12466484.
3. Gould, E. A., et al. "Understanding the Alphaviruses: Recent Research on Important Emerging Pathogens and

Progress Towards Their Control." Antiviral Res. 87
(2010): 111-124. PubMed: 19616028.

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