Chikungunya Virus, 181/25

Catalog No. NR-56523

For research use only. Not for use in humans.

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Manufacturer:
BEI Resources

Product Description:

Virus Classification: Togaviridae, Alphavirus
Species: Chikungunya virus
Strain/Isolate: 181/25
Original Source: Chikungunya virus (CHIKV), 181/25 is a live-attenuated derivative of strain AF15561, which was originally isolated from a human in Thailand in 1962.\(^{1,2,3}\) Attenuation of 181/25 is mediated by two amino acid substitutions in the E2 glycoprotein.\(^{4}\)
Comments: NR-56523 replaces NR-13222

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.\(^{5}\)

Material Provided:

Each vial contains approximately 1.0 mL of cell lysate and supernatant from Cercopithecus aethiops (African green monkey) kidney epithelial cells (Vero E6; ATCC CRL-1586™) infected with CHIKV, 181/25.

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

Packaging/Storage:

NR-56523 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 (African green monkey) kidney epithelial cells (Vero E6; ATCC CRL-1586™)
Growth Medium: Dulbecco's Modified Eagle's medium (DMEM; ATCC® 30-2002) supplemented with 2% irradiated fetal bovine serum (ATCC® 30-2020), or equivalents
Infection: Cells should be 70% to 80% confluent
Incubation: 4 to 8 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, 181/25, NR-56523.”

Biosafety Level: 2


Disclaimers:

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References:


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