Product Information Sheet for NR-49741

Chikungunya Virus, LR 2006-OPY1

Catalog No. NR-49741

For research use only. Not for human use.

Contributor:
World Reference Center for Emerging Viruses and Arboviruses, University of Texas Medical Branch, Galveston, Texas, USA

Manufacturer:
BEI Resources

Product Description:
Virus Classification: *Togaviridae*, *Alphavirus*
Species: Chikungunya virus
Strain/Isolate: LR 2006-OPY1
Original Source: Chikungunya virus (CHIKV), LR 2006-OPY1 was isolated from a 73-year old male traveler returning to mainland France from Reunion Island, a French Indian Ocean island in 2006,[1] and contributed to WRCEVA by Rémi N. Charrel, Fédération de Microbiologie Clinique Hôpital de la Timone, Unité des Virus Emergents, Faculté de Médecine, Marseilles, France. In order to remove contaminating mycoplasma, the second viral passage at BEI Resources was performed by lipofectamine-mediated transfection of extracted viral RNA. The complete genomic sequence of CHIKV, LR 2006-OPY1 has been determined (GenBank: DQ443544 and KT449801).[1-3]

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 human vaccines with which to control infections due to CHIKV.[4]

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero 76, clone E6; ATCC® CRL-1586™) infected with CHIKV, LR 2006-OPY1.

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

Packaging/Storage:
NR-49741 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 76, clone 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 60% to 90% confluent
Incubation: 3 to 7 days at 37°C and 5% CO_2
Cytopathic Effect: Cell rounding and detachment

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH, as part of the WRCEVA program: Chikungunya Virus, LR 2006-OPY1, NR-49741."

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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:
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References:

1. Parola, P., et al. "Novel Chikungunya Virus Variant in Travelers Returning from Indian Ocean Islands." Emerg Infect. Dis. 12 (2006): 1493-1499. PubMed: 17176562.
2. Charrell, R. N., C. Zandotti, and X. Lamballerie. Univ. de la Mediterrannee, 27 Blvd. Jean Moulin, Marseille 13005, France. Direct submission.
3. Poo, Y. S., et al. QIMR Berghofer Medical Research Center, Herston, Queensland 4122, Australia. Direct submission.
4. 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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