Japanese Encephalitis Virus, J 208335

Catalog No. NR-2333

For research use only. Not for human use.

Contributor:
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Product Description:

Virus Classification: Flaviviridae, Flavivirus
Species: Japanese encephalitis virus
Strain/Isolate: J 208335
Original Source: Isolated from Culex tritaeniorhynchus (mosquito) in Japan.
Comments: JEV, J 208335 was obtained from the CDC from R. Shape of the Yale Arbovirus Research Unit, Department of Epidemiology and Public Health, Yale University School of Medicine, New Haven, Connecticut, 1983.

Japanese encephalitis virus (JEV) is an arbovirus transmitted in a zoonotic cycle among rice-field mosquitoes of the Culex species, with pigs as amplifying hosts and wading birds as intermediate hosts. It is the most important cause of epidemic encephalitis worldwide, with around 50,000 cases below 10 years of age. Approximately half the survivors in a zoonotic cycle among rice-field mosquitoes of the Japanese encephalitis virus (JEV) is an arbovirus transmitted intermediate hosts. It is the most important cause of epidemic encephalitis worldwide, with around 50,000 cases and 10,000 deaths per year affecting essentially children below 10 years of age. Approximately half the survivors have severe neurological disabilities. Most cases occur in rural areas of Southeast Asia, but the geographical area affected by JEV is expanding. In the absence of an effective antiviral treatment, prevention constitutes the best defense against this disease. Several vaccines are now available and others are under development.

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from African green monkey kidney cells (Vero; ATCC® CCL-81™) infected with JEV, J 208335.

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

Packaging/Storage:
NR-2333 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -70°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: Minimum Essential Medium containing Earle’s salts and non-essential amino acids supplemented with 2% irradiated fetal bovine serum, 2 mM L-glutamine and 1 mM sodium pyruvate, or equivalent
Infection: Cells should be 80-90% confluent (not 100% confluent)
Incubation: 4 to 7 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 the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Japanese Encephalitis Virus, J 208335, NR-2333.”

Biosafety Level: 3
Vaccination is recommended for all laboratory workers with a potential for exposure to infectious JEV.

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References:

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