Yellow Fever Virus, 17D

Catalog No. NR-116

For research use only. Not for use in humans.

Contributor: ATCC®

Manufacturer: BEI Resources

Product Description:
Virus Classification: Flaviviridae
Species: Yellow fever virus
Strain/Isolate: 17D

Original Source: Yellow fever virus (YFV), 17D was derived from the virulent Asibi strain of yellow fever virus (YFV) by in vitro passage in chicken embryo tissue. The Asibi strain was isolated in 1927 by inoculating rhesus macaques with the blood of a West African patient.1

Comments: The complete genome of YFV, 17D vaccine strain has been sequenced (GenBank: X03700).2

YFV is a mosquito-borne virus, which circulates in natural transmission cycles between mosquitoes and temporary amplifiers, humans and monkeys. Yellow fever (YF) is endemic in tropical regions of Africa and South America and poses a serious health risk to travelers to these areas.2,3,4 Vector-control strategies that were once successful for the elimination of YFV from many regions have faltered, leading to the reemergence of the disease.5 Currently, there is no effective drug treatment for YF; however, live-attenuated 17D YF vaccines have demonstrated high rates of effectiveness and good safety profiles.6,7,8

Material Provided:
Each vial contains approximately 1.0 mL of cell lysate and supernatant from African green monkey kidney cells (Vero) infected with YFV, 17D.

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

Packaging/Storage:
NR-116 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 cells (Vero; ATCC CCL-81™)
Growth Medium: Eagle’s minimum essential medium (EMEM; ATCC 30-2003) supplemented with 2% fetal bovine serum (ATCC 30-2020), or equivalent

Infection: Cells should be 90% to 100% confluent
Incubation: 5 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 BEI Resources, NIAID, NIH: Yellow Fever Virus, 17D, NR-116.”

Biosafety Level: 2

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References:


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