Product Information Sheet for NR-52255

Measles Virus, MVs/Massachusetts.USA/19.11/2 [G3]

Catalog No. NR-52255

For research use only. Not for use in humans.

Contributor:
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Manufacturer:
BEI Resources

Product Description:

Virus Classification: Paramyxoviridae, Morbillivirus
Species: Measles virus
Strain/Isolate: MVs/Massachusetts.USA/19.11/2 [G3]
Genotype: G3
Original Source: Measles virus (MeV), MVs/Massachusetts.USA/19.11/2 [G3] was collected from a throat swab in May 2011 in Massachusetts, USA and was isolated on August 28, 2014.1
Comments: MeV, MVs/Massachusetts.USA/19.11/2 [G3] belongs to genotype G3 and the sequence of the nucleoprotein gene is available (GenBank: JN599002).

MeV is a single-strand negative sense non-segmented RNA virus.2 MeVs are divided into 8 clades, designated A through H, with 24 genotypes based on the sequences of the hemagglutinin (HA) and nucleoprotein (N) genes. The sequence of the 450 nucleotides that encode the carboxy-terminal 150 amino acids of the nucleoprotein (N-450) is needed to determine the genotype.2,3 In 2018, four new genotypes were identified: B3, D4, D8 and H1. In 2000, measles was declared eliminated in the US by the WHO, but in 2019 the highest numbers of cases and outbreaks were reported.4

Material Provided:

Each vial contains approximately 1.0 mL of cell lysate and supernatant from Cercopithecus aethiops kidney epithelial cells with human signaling lymphocytic activation molecule (Vero E6-hSLAM) infected with MeV, MVs/Massachusetts.USA/19.11/2 [G3].

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

Packaging/Storage:

NR-52255 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 with human signaling lymphocytic activation molecule (Vero E6-hSLAM)
Growth Medium: Dulbecco’s Modified Eagle’s Medium containing Earle’s Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate and 1500 mg per L of sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent
Infection: Cells should be 70% to 90% confluent
Incubation: 2 to 4 days at 37°C and 5% CO2
Cytopathic Effect: Syncytia formation

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Measles Virus, MVs/Massachusetts.USA/19.11/2 [G3], NR-52255.”

Biosafety Level: 2


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References:

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