Enterovirus D68, US/MO/14-18949

Catalog No. NR-49130
This reagent is the property of the U.S. Government.

For research use only. Not for human use.

Contributor:
M. Steven Oberste, Ph.D., Chief, Poliovirus and Picornavirus Laboratory Branch, Division of Viral Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia, USA

Manufacturer:
BEI Resources

Product Description:

Virus Classification: Picornavirales, Picornaviridae, Enterovirus
Species: Enterovirus D
Type: D68
Strain: US/MO/14-18949

Original Source: Enterovirus D68 (EV-D68), US/MO/14-18949 was isolated from a nasopharyngeal swab taken from a human in Missouri, USA, in August, 2014. A nearly complete genome sequence for Enterovirus D68, US/MO/14-18949 is available (GenBank: KM851227).

EV-D68 was first identified in California in 1962 from cases of bronchiolitis and pneumonia and was subsequently rarely reported in the United States until 2009. Clusters of severe respiratory disease were reported to the Centers for Disease Control and Prevention beginning in August 2014. EV-D68 was identified from a high percentage of cases of bronchiolitis and pneumonia and was subsequently identified in several other states. While the complete epidemiology of the current EV-D68 outbreak is still being determined, one of several co-circulating EV-D68 strains that have been identified in the current outbreak.

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from human rhabdomyosarcoma cells (RD, ATCC® CCL-136™) infected with EV-D68, US/MO/14-18949.

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

Packaging/Storage:
NR-49130 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: RD cells (ATCC® CCL-136™)
Growth Medium: Eagle's Minimum Essential Medium with Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate, and 1500 mg/L sodium bicarbonate, supplemented with 2% fetal bovine serum.
Infection: Cells should be 70% to 90% confluent
Incubation: 1 to 8 days at 33°C and 5% CO₂
Cytopathic Effect: Cell rounding and detachment

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Enterovirus D68, US/MO/14-18949, NR-49130.”

Biosafety Level: 2

Disclaimers:
You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:
This material is distributed for internal research, non-commercial purposes only. This material, its product or its...
derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

ATCC® is a trademark of the American Type Culture Collection.