

SUPPORTING INFECTIOUS DISEASE RESEARCH

# **Product Information Sheet for NR-49129**

## **Enterovirus D68, US/MO/14-18947**

## Catalog No. NR-49129

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## For research use only. Not for human use.

#### Contributor:

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#### Manufacturer:

BEI Resources (Lot Nos. 63205984 and 64477673) CDC Division of Viral Diseases (Lot No. 63264119)

## **Product Description:**

Virus Classification:

Picornavirales, Picornaviridae,

Enterovirus

Species: Enterovirus D

Type: D68

Strain: US/MO/14-18947

Original Source: Enterovirus D68 (EV-D68), US/MO/14-18947 was isolated from a nasopharyngeal swab taken from a human in Missouri, USA, in August, 2014.1

<u>Comments</u>: A nearly complete genome sequence for Enterovirus D68, US/MO/14-18947 is available (GenBank: KM851225).

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 initial cases, and severe EV-D68 infections became widespread across the United States in August and September. EV-D68, US/MO/14-18947 is representative of one of several co-circulating EV-D68 strains that have been identified in the current outbreak.<sup>1</sup>

#### **Material Provided:**

Each vial contains cell lysate and supernatant from human rhabdomyosarcoma cells (RD, ATCC® CCL-136™) infected with EV-D68, US/MO/14-18947. Each vial of Lot Nos. 63205984 and 64477673 contains approximately 1 mL; each vial of Lot No. 63264119 contains approximately 0.5 mL.

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

### Packaging/Storage:

NR-49129 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 80% to 95% confluent Incubation: 1 to 9 days at 33°C and 5% CO<sub>2</sub>
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/14-18947, NR-49129."

#### **Biosafety Level: 2**

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:

 Brown, B. A., et al. "Seven Strains of Enterovirus D68 Detected in the United States during the 2014 Severe Respiratory Disease Outbreak." <u>Genome Announc.</u> 2 (2014): e01201-14. PubMed: 25414503.

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