Product Information Sheet for NR-52318

Enterovirus Species D Type 111, ANG/2010-23294

Catalog No. NR-52318

For research use only. Not for use in humans.

Contributor:
William Allan Nix, Polio and Picornavirus Laboratory Branch, Division of Viral Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia, USA

Manufacturer:
BEI Resources

Product Description:
Virus Classification: *Picornaviridae*, *Enterovirus*
Species: Enterovirus D
Type: D111
Strain/Isolate: ANG/2010-23294
Original Source: Enterovirus species D type 111 (EV-D111), ANG/2010-23294 was isolated in 2010 from a stool sample from a human subject in Angola.[1] The subject was not suffering from acute flaccid myelitis (AFM).[1]
Comments: The complete genome of EV-D111, ANG/2010-23294 has been sequenced (GenBank: MT081371).

Enteroviruses are small non-enveloped viruses whose genome consists of a single strand of positive-sense RNA.[2] EV-D111s were first identified in Africa in the early 2000s from human stool samples. EV-D111s are currently poorly characterized. One EV-D111 has been detected in the stool of wild non-human primates, suggesting EV-D111s might be zoonotic viruses. They are resistant to acid pH and it is therefore believed that enteric replication occurs. EV-D111s are known only through partial sequences. So far, EV-D111 viruses have been observed only in Africa.[2]

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from rhabdomyosarcoma cells infected with EV-D111, ANG/2010-23294.

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

Packaging/Storage:
NR-52318 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: Rhabdomyosarcoma cells (RD; ATCC® CCL-136™)
Growth Medium: Dulbecco's Modified Eagle's Medium modified to contain 4 mM L-glutamine, 4500 mg per L glucose, 1 mM sodium pyruvate and 1500 mg per L of sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent
Infection: Cells should be approximately 80 to 90% confluent
Incubation: 5 to 10 days at 37°C and 5% CO_2
Cytopathic Effect: Cell rounding and sloughing

Citation:
Acknowledgment for publications should read "The following reagent was contributed by Division of Viral Diseases, Centers for Disease Control and Prevention for distribution through BEI Resources, NIAID, NIH: Enterovirus Species D Type 111, ANG/2010-23294, NR-52318."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

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References:

1. Nix, W. A., Personal Communication.
2. Sadeuh-Mba, S. A., et al. "Genetic and Phenotypic Characterization of Recently Discovered Enterovirus D Type 111." PLoS Negl. Trop. Dis. 13 (2019): e0007797. PubMed: 31622358.

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