

Product Information Sheet for NR-52317

Enterovirus Species D Type 94, ANG/2010-23293

Catalog No. NR-52317

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Virus Classification: Picornaviridae, Enterovirus

Species: Enterovirus D

Type: D94

Strain/Isolate: ANG/2010-23293

<u>Original Source</u>: Enterovirus species D type 94 (EV-D94), ANG/2010-23293 was isolated in 2010 from a stool specimen from a human subject in Angola.¹ The subject was not suffering from acute flaccid myelitis (AFM).¹

<u>Comments</u>: The complete genome of EV-D94, ANG/2010-23293 has been sequenced (GenBank: MT081370).

Enteroviruses are small non-enveloped viruses whose genome consists of a single strand of positive-sense RNA.² EV-D94 was first identified from a patient with polio-like neurological disorder known as acute flaccid myelitis (AFM) in Democratic Republic of Congo (DRC) in 2007, and in Egypt in sewage samples.² EV-D94 remains poorly characterized, but is believed to cause enteric disease and to be transmitted via the fecal-oral route; however, it was first isolated from a patient with AFM. Unusually, there is a high prevalence of anti-EV-D94 antibodies in the Finnish population.²

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from rhabdomyosarcoma cells infected with EV-D94, ANG/2010-23293.

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

Packaging/Storage:

NR-52317 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: 9 to 11 days at 37°C and 5% CO₂ 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 94, ANG/2010-23293, NR-52317."

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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References:

- 1. Nix, W. A., Personal Communication.
- Filipe, I. C., et al. "Enterovirus D: A Small but Versatile Species." <u>Microorganisms</u> 9(2021): 1758. PubMed: 34442837.

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