

SUPPORTING INFECTIOUS DISEASE RESEARCH

# **Product Information Sheet for NR-53715**

# Murine Coronavirus, MHV-1, Plaque Purified

# Catalog No. NR-53715

# For research use only. Not for use in humans.

#### **Contributor:**

Susan Weiss, Professor of Microbiology, Department of Microbiology, University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania, USA

#### Manufacturer:

**BEI Resources** 

#### **Product Description:**

<u>Virus Classification</u>: Coronaviridae, Betacoronavirus

<u>Species</u>: Murine coronavirus [formerly murine hepatitis virus

Isolate: MHV-1

Original Source: Murine coronavirus (CoV), MHV-1 causes a respiratory illness in mice which is similar to SARS. 1.2

<u>Comments</u>: Murine CoV, MHV-1 was plaque purified in the early 2000s in murine 17Cl-1 cells and then expanded in the same cell line.<sup>1,2</sup> The complete genome of murine coronavirus MHV-1 has been sequenced (GenBank: FJ647223.1).

#### **Material Provided:**

Each vial contains approximately 1.0 mL of plaque-purified cell lysate and supernatant from murine 17Cl-1 cells infected with murine CoV, MHV-1.

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

# Packaging/Storage:

NR-53715 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:**

<u>Host</u>: Murine fibroblast cells (17Cl-1, derived from 3T3 cells; BEI Resources NR-53719)

Growth Medium: Dulbecco's Modified Eagle's Medium (DMEM) modified to contain 4 mM L-glutamine, 4500 mg per L glucose, 1 mM sodium pyruvate, and 1500 mg per L sodium bicarbonate supplemented with 2% fetal bovine serum or equivalent

Infection: Cells should be 70% to 80% confluent Incubation: 5 to 9 days at 37°C and 5% CO<sub>2</sub>
Cytopathic Effect: Cell rounding and sloughing

# Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Murine Coronavirus, MHV-1, Plaque Purified, NR-53715."

# 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:

- De Albuquerque, N., et al. "Murine Hepatitis Virus Strain 1 Produces a Clinically Relevant Model of Severe Acute Respiratory Syndrome in A/J Mice." <u>J. Virol.</u> (2006): 10382-10394. PubMed: 17041219.
- 2. Weiss, S., Personal Communication.

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www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898