

# **Product Information Sheet for NR-53718**

# Recombinant Murine Coronavirus, JHM.SD (Wild Type)

Catalog No. NR-53718

For research use only. Not for use in humans.

#### Contributor:

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# Manufacturer:

**BEI Resources** 

# **Product Description:**

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

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

(MHV)]

Isolate: JHM.SD (also referred to as JHM and MHV-4)1

<u>Original Source:</u> Murine coronavirus, JHM.SD is a recombinant virus derived from MHV, JHM, a naturally occurring neurotropic virus.<sup>1,2,3</sup>

<u>Comments</u>: Wild-type recombinant JHM (rJHM) is phenotypically indistinguishable from the parental wild type.<sup>1</sup> The complete genome of MHV, JHM has been sequenced (GenBank: <u>AC 000192</u>).

#### **Material Provided:**

Each vial contains approximately 1.0 mL of cell lysate and supernatant from murine 17Cl-1 cells infected with recombinant murine coronavirus, JHM.SD.

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

### Packaging/Storage:

NR-53718 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: Murine 17Cl-1 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: 1 to 4 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:

Recombinant Murine Coronavirus, JHM.SD (Wild Type), NR-53718."

# 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:

- Cowley, T. J., S. Y. Long and S. R. Weiss. "The Murine Coronavirus Nucleocapsid Gene is a Determinant of Virulence." <u>J. Virol.</u> 84 (2010): 1752-1763. PubMed: 20007284.
- 2. Weiss, S. R., Personal Communication.
- Zhang, R., et al. "The nsp1, nsp13 and M Proteins Contribute to the Hepatotropism of Murine Coronavirus JHM.WU." J. Virol. 89 (2015): 3598-3609. PubMed: 25589656.

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