**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:**
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**Manufacturer:**
BEI Resources

**Product Description:**

**Virus Classification:** Coronaviridae, Betacoronavirus

**Species:** Murine coronavirus (formerly murine hepatitis virus (MHV))

**Isolate:** MHV-1

**Original Source:** Murine coronavirus (CoV), MHV-1 causes a respiratory illness in mice which is similar to SARS.\(^1\,\(^2\)

**Comments:** Murine CoV, MHV-1 was plaque purified in the early 2000s in murine 17Cl-1 cells and then expanded in the same cell line.\(^1\,\(^2\) 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:**

**Host:** 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\(_2\)

**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


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**References:**
2. Weiss, S., Personal Communication.

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