

VR-1937[™]

Description

Murine norovirus 1 (MNV-1) strain CW1 is propagated in RAW 264.7 cells (ATCC TIB-71). This strain was purified from an infected IFN $\alpha\beta\gamma$ R-/- mouse brain homogenate. This animal virus has been verified by whole-genome sequencing and has has applications in enteric and infectious disease research.

Strain designation: CW1 **Common name:** MNV-1

Deposited As: Murine norovirus 1 (MNV-1) animal: CW1

Storage Conditions

Product format: Frozen

Storage conditions: -70°C or colder

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL₂

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories* (*BMBL*), U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local



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or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: RAW 264.7 (ATCC TIB-71)

Effects: cell sloughing; cell degeneration

Complete medium:

EMEM (ATCC 30-2003) + 2% FBS (ATCC 30-2020)

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: Plate cells 18-24 hours prior to infection and infect when cultures are 60-70% confluent. Remove medium and inoculate with a small volume of virus (e.g. 1 mL per 25 cm²) diluted to provide an optimal MOI (e.g. 0.1). Adsorb 1-2 hours at 37°C in a humidified 5% CO₂ atmosphere. End adsorption by adding virus growth medium.

Incubation: 4-6 days at 37°C in a humidified 5% CO₂ atmosphere, until CPE is

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progressed through 95% of the monolayer.

Notes

The ATCC TIB-71 cell line is a macrophage transformed by Abelson murine leukemia virus and has been demonstrated to express ecotropic and polytropic MuLV, which may be detected by NGS. Additionally, a less than 2 kb fragment of Staphylococcus chromosome may be observed; attributable to the vector.

This material is cited in a US or other Patent and may not be used to infringe the claims. Depending on the wishes of the Depositor, ATCC may be required to inform the Patent Depositor of the party to which the material was furnished. **Key Abbreviations:** °C, Degrees Celsius; CO₂, Carbon dioxide; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; MOI, Multiplicity of infection; MuLV,

Murine leukemia virus; NGS, next generation sequencing

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Murine norovirus 1 (ATCC VR-1937)

References

References and other information relating to this material are available at www.atcc.org.

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