



Theiler's murine encephalomyelitis virus

VR-57™

Description

Strain designation: GD 7

Common name: TMEV

Deposited As: Mouse encephalomyelitis

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.

BSL 2

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 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: BHK-21 [C-13] (ATCC CCL-10)

Host Range: BHK-21 cells, M (i.c.), sM (i.c. or i.p.), hamster, cotton rat, mouse, i.c. inoculation; suckling mouse, i.c. or i.p. inoculation; hamster; cotton rat; L-929 cells (ATCC CCL-1); BHK-21(C-13) cells (ATCC CCL-10)

Effects: cell rounding; CPE; death of host animal; foci formation

Temperature: 37°C

Incubation: 1-2 days

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Strain is antigenically related to the FA (ATCC VR-56) and TO (ATCC VR-55) strains; von Magnus, H. et. al., Virology 1:185, 1955. Lesions occur in the brain and spinal cord of mice. Cross-neutralizes other TMEV fully, but does not cross-neutralize the other Cardioviruses (Mengo, EMCV). Hemagglutinates human type O RBC. The virus is stable at 4°C in 50% glycerol. The virus does not withstand lyophilization. Seed stocks of VR-57 have been treated with solvents to deal with Mycoplasma contamination. Any potential contaminating yellow fever virus would have been destroyed by the solvents used which act by destroying membranes.

Key Abbreviations: BHK-21, Hamster kidney cell line; CPE, Cytopathic effect; DMEM, Dulbecco's Modified Eagle's Medium; EMCV, Encephalomyocarditis virus; Exp., Experimental; FA, Strain of TMEV that causes encephalitic type TMEV; GD 7, Strain of TMEV discovered accidentally like the FA strain and considered more virulent in mice; i.c., Intracerebral; IFA, Indirect fluorescent antibody; i.p., Intraperitoneal; J, Journal; L929, clone of strain L cells; M, Mouse; Med., Medicine; mL, Milliliter; Pen, Penicillin; RBC, Red blood cell; SM, Suckling mouse; Strep, Streptomycin; TC, Tissue culture; TCID₅₀, Median tissue culture infective dose; TMEV, Theiler's murine encephalomyelitis virus; TO, Theiler's original virus strain

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Theiler's murine encephalomyelitis virus (ATCC VR-57)

References

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

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