



# Encephalomyocarditis virus

VR-129B™

## Description

Encephalomyocarditis virus strain EMC is propagated in Vero cells (ATCC CCL-81). The strain was isolated from a chimpanzee in Florida in 1944 and is indistinguishable antigenically from strain MM and Mengo encephalomyocarditis virus.

**Strain designation:** EMC

**Deposited As:** Encephalomyocarditis (Murine) (tissue culture adapted)

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -70°C or colder

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## 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.

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## BSL 2

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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.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

**Host:** Vero (ATCC CCL-81)

**Effects:** CPE; cell rounding; cell sloughing

**Complete medium:**

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

**Temperature:** 37°C

**Atmosphere:** 95% Air, 5% CO<sub>2</sub>

**Recommendations for infection:** Plate cells 24-48 hours prior to infection and infect when cultures are 80-90% confluent. Remove medium and inoculate with a small volume of virus (e.g. 1 mL per 25 cm<sup>2</sup>) diluted to provide an optimal MOI (e.g. 0.1). Adsorb 1-2 hours at 37°C in a humidified 5% CO<sub>2</sub> atmosphere, rocking every 15-20 minutes to redistribute inoculum. End adsorption by adding virus growth medium.

**Incubation:** 2-4 days

## Handling Procedures

**Mycoplasma contamination:** Not detected

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## Notes

This strain is indistinguishable antigenically from strain MM and Mengo encephalomyocarditis virus.

**Key Abbreviations:** °C, Degrees Celsius; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Encephalomyocarditis virus (ATCC VR-129B)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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