



Rhesus rotavirus (MMU 18006)

VR-1739™

Description

Rhesus rotavirus strain S:USA:79:2 is cultivated in MA-104 Clone 1 cells (ATCC CRL-2378.1). This culture was isolated from the stool sample of a *Macaca mulatta* monkey with diarrhea.

Strain designation: S:USA:79:2

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: MA-104 Clone 1 (ATCC CRL-2378.1)

Alternate Hosts: BS-C-1 (ATCC CCL-26), Rhesus embryonic monkey kidney cells,

Primary cynomolgus monkey kidney cells

Effects: cell rounding; CPE

Complete medium:

EMEM (ATCC 30-2003) + 2.0 mg/mL Trypsin (Sigma T7409)

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: For best results, plate cells 24-48 hours in advance.

Infect at 80%-90% confluent, not 100% confluent. Remove medium and inoculate with a small volume of virus diluted to provide a MOI of about 0.1. Adsorb 1 hour at

37°C in a humidified 5% CO₂ atmosphere, rocking every 20-30 minutes to

redistribute inoculum. End adsorption by adding virus growth medium. Incubate at

37°C in a humidified, 5% CO₂ atmosphere for 2-3 days, until CPE are well advanced in

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100% of the culture. In TC, ATCC VR-1739 should be grown in serum free media that contains 2 mg/mL trypsin.

Incubation: Incubate at 37°C in a humidified, 5% CO₂ atmosphere for 2-3 days, until CPE are well advanced in 100% of the culture. In TC, ATCC VR-1739 should be grown in serum free media that contains 2.0µg/ml trypsin.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Key Abbreviations: °C, Degrees Celsius; CDC, Centers for Disease Control and Prevention; CMK, Primary cynomolgus monkey kidney cells; CO₂, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; µg, Microgram; mg, Milligram; mL, Milliliter; RhMkK, Rhesus monkey kidney cells; RT, Room temperature; TC, Tissue culture

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Rhesus rotavirus (MMU 18006) (ATCC VR-1739)

References

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

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