Rhesus rotavirus (MMU 18006) (ATCC® VR-1739™)

Strain: S:USA:79:2
Classification: Reoviridae, Rotavirus
Original Source: Stool sample from Macaca mulatta monkey with diarrhea. This product has been transferred into a different host at ATCC.
Depositor: RW Emmons and NJ Schmidt

Propagation

Propagation Host:
Production Host: MA104.1 (ATCC CRL-2378.1)
Recommended Host: MA104.1 (ATCC® CRL-2378.1)
Alternate Hosts: BS-C-1 (ATCC CCL-26), Rhesus embryonic monkey kidney cells, Primary cynomolgus monkey kidney cells
Effect on Host: CPE in the form of refractile, rounded cells throughout monolayer or in loose clusters.

Medium:
Virus growth medium: EMEM (ATCC® 30-2003) + Trypsin (Sigma T7409)
Growth Conditions
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 37.0°C in a humidified 5% CO2 atmosphere, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium. Incubate at 37.0°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.

References

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

Key Abbreviations

°C, degrees Celsius
CDC, Center for Disease Control and Prevention
CMK, Primary cynomolgus monkey kidney cells
CO2 (CO2), carbon dioxide
CPE, cytopathic effect
EMEM, Eagles minimum essential medium
mg, microgram
mg, milligram
mL, milliliter
RhEMK, Rhesus embryonic monkey kidney cells
RT, room temperature
TC, tissue culture
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Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the Biosafety in Microbiological and Biomedical Laboratories from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.
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