Description

Strain: Miller (TC-adapted)
Classification: Coronaviridae, Coronavirus
Common Name: Transmissible gastroenteritis virus, porcine
Original Source:
Small intestine of neonatal pig with porcine transmissible gastroenteritis.
Depositor: LJ Saif

Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

Propagation

Propagation Host:
Production Host: ST cells (ATCC® CRL-1746)
Recommended Host: ST cells (ATCC® CRL-1746)
Medium:
Virus growth medium: EMEM (ATCC® # 30-2003) + 1 µg/mL TPCK- treated trypsin (USB #22725).
Growth Conditions
Plant cells 24 hours in advance and infect when cultures are 90-100% confluent. Remove medium and rinse cells twice with VGM without TPCK-treated trypsin. Leave the second wash over the cells for 3 hours at 37.0°C in a humidified 5% CO₂ atmosphere. Remove the second wash from the cells and then inoculate with a small volume of virus diluted with VGM supplemented with TPCK- treated trypsin (1 µg/mL) to provide a MOI of about 0.1. Adsorb for 1 hour at 37.0°C in a humidified 5% CO₂ atmosphere. End adsorption by adding VGM supplemented with 1 µg/mL of TPCK- treated trypsin. Incubate infected culture for 3 days at 37.0°C in a humidified 5% CO₂ atmosphere, until CPE are well advanced through 70-80% of the culture.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Transmissible gastroenteritis virus, porcine (ATCC® VR-1740™)

Comments

This item is derived by adaptation of virus isolated from small intestine of gnotobiotic infected pig (ATCC® VR-743) to ST cells (ATCC® CRL-1746) at ATCC.

References

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

Key Abbreviations

°C, degrees Celsius
CO₂ (CO₂), carbon dioxide
CPE, cytopathic effect
EMEM, Eagles minimum essential medium
MOI, multiplicity of infection
mg, microgram
ST, swine testis
TPCK, 1(Tosylamide-2 phenyl) ethyl chloromethyl ketone

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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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Additional information on this culture is available on the ATCC web site at www.atcc.org.

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