



Transmissible gastroenteritis virus

VR-1995™

Description

Transmissible gastroenteritis virus strain Purdue (attenuated) is propagated in ST cells (ATCC CRL-1746). This strain was originally isolated from the small intestine of an infected pig with mild diarrhea and was deposited under the catalog number ATCC VR-763. It was then passaged through a 0.2 µM cellulose acetate membrane syringe filter and re-assigned to the catalog number ATCC VR-1995. This viral strain can be used in viral neutralization tests, agricultural research, and infectious and enteric disease research.

Strain designation: Purdue (attenuated)

Common name: Transmissible gastroenteritis virus

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*

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(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: ST (ATCC CRL-1746)

Effects: CPE; cell rounding; cell sloughing

Complete medium:

MEM α (ThermoFisher Scientific[®] catalog 12000063) + 1.68 g/L Sodium Bicarbonate (Millipore Sigma[®] catalog S5761-500G)

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: Plate cells 16-24 hours prior to infection and infect

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when cultures are 80-90% confluent. Remove medium and inoculate with a small volume of virus (*e.g.*, 1 mL per 25 cm²) diluted to provide an optimal MOI (*e.g.*, 0.0001). Adsorb 1-2 hours at 37°C in a humidified 5% CO₂ atmosphere. End adsorption by adding virus growth medium.

Incubation: 2-4 days at 37°C in a humidified 5% CO₂ atmosphere, until CPE is progressed through 80% of the monolayer.

Notes

Derived by passage of ATCC VR-763 through a 0.2 µm cellulose acetate membrane syringe filter. ATCC VR-763 and ATCC VR-1995 have not been compared for sequence or infectivity.

Key Abbreviations: °C, Degrees Celsius; CO₂, Carbon dioxide; MEM, Minimum Essential Medium; MOI, Multiplicity of infection; ST cells, Swine testicular cells

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Transmissible gastroenteritis virus (ATCC VR-1995)

References

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

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