



# Transmissible gastroenteritis virus, porcine

VR-1740™

## Description

**Strain designation:** Miller (TC-adapted)

**Common name:** Transmissible gastroenteritis virus, porcine

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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

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.

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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 submerged 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 submerged 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:** ST (ATCC CRL-1746)

**Complete medium:**

EMEM (ATCC® # 30-2003™) + 1 µg/ mL TPCK- treated Trypsin (USB #22725).

**Temperature:** 37°C

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

**Recommendations for infection:** 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°C in a humidified 5% CO<sub>2</sub> 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°C in a humidified 5% CO<sub>2</sub> atmosphere. End adsorption by adding VGM supplemented with 1 µg/ mL of TPCK- treated trypsin.

**Incubation:** Incubate infected culture for 3 days at 37°C in a humidified 5% CO<sub>2</sub>

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atmosphere, until CPE are well advanced through 70-80% of the culture.

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### Handling Procedures

**Mycoplasma contamination:** Not detected

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### Notes

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

**Key Abbreviations:** °C, Degrees Celsius; CO<sub>2</sub>, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; MOI, Multiplicity of infection; ug, Microgram; ST, Porcine fetal testis cells; TPCK, L-1-tosylamido-2-phenylethyl chloromethyl ketone

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### Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Transmissible gastroenteritis virus, porcine (ATCC VR-1740)

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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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