Porcine Transmissible Gastroenteritis Virus, Purdue (attenuated)

Catalog No. NR-446

For research use only. Not for human use.

NR-446 did not pass the BEI Resources quality control Mycoplasma Culture Test. Please see the Certificate of Analysis to determine whether or not this product is acceptable for your intended use.

Contributor:

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Product Description:

Virus Classification: *Coronaviridae, Coronavirus*, Group 1
Species: Porcine transmissible gastroenteritis virus (TGEV)
Strain: Purdue (attenuated)
Original Source: Porcine TGEV, Purdue was isolated from the small intestinal contents of a young pig with diarrhea, vomiting, and dehydration.
Comments: The virus was propagated in primary porcine kidney (PPK)[1] cells for 115 passages and then in swine testicular (ST) cells for more than 6 passages.

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from ST cells infected with the Purdue (attenuated) strain of porcine TGEV.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-446 was packaged in screw-capped plastic cryovials. The product is provided frozen and should be stored at -70°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Growth Conditions:

Host: ST cells
Growth Medium: Minimum Essential Medium containing Earle's salts, L-glutamine and sodium bicarbonate (supplemented with 1% nonessential amino acids and 1% antibiotics)
Incubation: 16 to 20 hours at 37°C
Cytopathic Effect: Fused, rounded cells, diffuse cytoplasmic vacuolation
Alternate Host: PPK cells[1]

Note: Porcine TGEV is sensitive to ultraviolet light, high temperature, and strong mechanical agitation.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Porcine Transmissible Gastroenteritis Virus, Purdue (attenuated), NR-446."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

Disclaimers:

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References:

1. Bohl, E. H., et al. "Antibody Responses in Serum, Colostrum, and Milk of Swine after Infection or Vaccination with Transmissible Gastroenteritis Virus." Infect. Immun. 6 (1972): 289-301. PubMed: 4629259.
2. Brian, D. A. and R. S. Baric. "Coronavirus Genome Structure and Replication." Curr. Top. Microbiol. Immunol. 287 (2005): 1-30. PubMed: 15609507.

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