

Porcine Transmissible Gastroenteritis Virus (TGEV), Purdue (attenuated), Chemically Inactivated

Catalog No. NR-452

For research use only. Not for human use.

Contributor:

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Product Description:

Virus Classification: *Nidovirales, Coronaviridae, Coronavirus, Group 1*

Agent: Porcine transmissible gastroenteritis virus (TGEV), chemically inactivated

Strain: Purdue (attenuated)

Original Source: Small intestinal contents of a young pig with diarrhea, vomiting, and dehydration

Comments: The virus was propagated in primary porcine kidney (PPK) cells¹ 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. The suspension of cell lysate and supernatant was treated with binary ethyleneimine to inactivate the virus.

Packaging/Storage:

NR-452 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Growth Conditions Prior to Inactivation:

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)

Infection: 18 to 24 hours

Incubation: 4 to 5 days at 37°C

Cytopathic Effect: Fused, rounded cells, diffuse cytoplasmic vacuolation

Alternate Host: PPK cells¹

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 (TGEV), Purdue (attenuated), Chemically Inactivated, NR-452."

Biosafety Level: 1

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. 4th ed. Washington, DC: U.S. Government Printing Office, 1999. HHS Publication No. (CDC) 93-8395. This text is available online at www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm.

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