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

Catalog No. NR-452

For research use only. Not for human use.

Contributor:
Linda J. Saif, Ph.D., Food Animal Health Research Program, Ohio Agricultural Research and Development Center, Department of Veterinary Preventive Medicine, College of Veterinary Medicine, The Ohio State University, Wooster, Ohio

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) 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. The suspension of cell lysate and supernatant was treated with binary ethylenimine 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 cells
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

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