Porcine Transmissible Gastroenteritis Virus (TGEV), Miller

Catalog No. NR-447

For research use only. Not for human use.

Contributor:
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Product Description:

Virus Classification: Nidovirales, Coronaviridae, Coronavirus, Group I

Agent: Porcine transmissible gastroenteritis virus (TGEV)

Strain: Miller

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

Comments: The complete genome of TGEV, Miller M6 has been sequenced (GenBank: DQ811785).

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from swine testicular (ST) cells infected with porcine TGEV, Miller. 

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

Packaging/Storage:
NR-447 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. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

Host: ST cells (ATCC® CRL-1746™)

Growth Medium: Minimum Essential Medium containing Earle’s salts, L-glutamine, and sodium bicarbonate (supplemented with 1% nonessential amino acids and 1% antibiotics)

Infection: Cells should be 80-90% confluent (not 100% confluent)

Incubation: 1 to 3 days at 37°C and 5% CO2

Cytopathic Effect: Cell rounding and sloughing

Alternate Hosts: Porcine kidney cells or gnotobiotic pigs

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), Miller, NR-447.”

Biosafety Level: 2


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References:


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