

Porcine Transmissible Gastroenteritis Virus (TGEV), Miller, Chemically Inactivated

Catalog No. NR-453

Product Description: Cell lysate and supernatant from swine testicular (ST) cells infected with the Miller strain of porcine TGEV. The suspension of cell lysate and supernatant was treated with binary ethyleneimine to inactivate the virus.

Lot: 4462789

Manufacturing Date: 07JAN2005

TEST	SPECIFICATIONS	RESULTS
Plaque Reduction Assay¹ on ST Cells	Report results	< 10 plaque forming units/mL
Cell Culture Immunofluorescence Assay² on ST Cells	Report results	< 10 fluorescent focus units/mL
Antigen-Capture ELISA³	Report results	320
Sterility (21-day incubation) Harpo's HTYE broth ⁴ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA Detection by PCR of Test Article nucleic acid	None detected None detected	None detected None detected

¹Bohl, E. H., R. K. P. Gupta, M. V. F. Olquin, and L. J. Saif. "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.

²Welch, S. K. and L. J. Saif. "Monoclonal Antibodies to a Virulent Strain of Transmissible Gastroenteritis Virus: Comparison of Reactivity with Virulent and Attenuated Virus." *Arch. Virol.* 101 (1988): 221-235. PubMed: 2845894.

³Titer is expressed as the reciprocal of the highest dilution that resulted in a mean absorbance greater than the mean absorbance of the mock-infected control plus three standard deviations. See, Sestak, K., Z. Zhou, D. I. Shoup, and L. J. Saif. "Evaluation of the Baculovirus-Expressed S Glycoprotein of Transmissible Gastroenteritis Virus (TGEV) as Antigen in a Competition ELISA to Differentiate Porcine Respiratory Coronavirus from TGEV Antibodies in Pigs." *J. Vet. Diagn. Invest.* 11 (1999): 205-214. PubMed: 10353350.

⁴Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 24 JUL 2006

Signature: Signature on File

Title: Technical Manager, BEI Authentication

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