

Polyclonal Anti-Porcine Transmissible Gastroenteritis Virus (TGEV), Purdue (antiserum, Gnotobiotic Pig)

Catalog No. NR-458

This reagent is the property of the U.S. Government.

Product Description: Antiserum to the Purdue strain of porcine transmissible gastroenteritis virus (TGEV) was produced by immunization of gnotobiotic pigs with the virus.

Lot: 4498421

Manufacturing Date: 12JUL2005

TEST	SPECIFICATIONS	RESULTS
Plaque Reduction Virus Neutralization Assay ^{1,2,6}	Report results	1400
Fluorescent Focus Forming Neutralization (FFN) Assay ^{2,3,6}	Report results	1600
Cell Culture Immunofluorescence (CCIF) Assay ⁴	Report results	6400
Antigen-Capture ELISA ^{5,6}	Report results	25600
Sterility (21-day incubation) Harpo's HTYE broth ⁷ , 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)	None detected	None detected

¹Titer is expressed as the reciprocal of the highest dilution producing reduction in plaques of at least 80% compared to controls.

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 serum dilution showing 100% neutralization of fluorescent foci determined by FFN assay using two-fold serial dilutions of the sera.

⁴Recommended use at 1:1600.

⁵Titer is expressed as the reciprocal of the highest serum dilution that resulted in a mean absorbance greater than the mean absorbance of the negative sera plus three standard deviations. See, Sestek, K., et al. "Contribution of Passive Immunity to Porcine Respiratory Coronavirus to Protection against Transmissible Gastroenteritis Virus Challenge Exposure in Suckling Pigs." *Am. J. Vet. Res.* 57 (1996): 664-671. PubMed: 8723879.

⁶All assays were performed against the porcine TGEV-Purdue strain (BEI Resources NR-446) using swine testicular cells.

⁷Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 21 JUL 2006

Signature: Signature on File

Title: Technical Manager, BEI Authentication

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