

**Porcine Respiratory Coronavirus, ISU-1, Chemically Inactivated**

**Catalog No. NR-454**

**Product Description:** Cell lysate and supernatant from swine testicular (ST) cells infected with the ISU-1 strain of porcine respiratory coronavirus, which was treated with binary ethyleneimine to inactivate the virus.

**Lot: 4462790**

**Manufacturing Date: 22SEP2004**

TEST	SPECIFICATIONS	RESULTS
<b>Cell Culture Immunofluorescence Assay<sup>1</sup> on ST Cells</b>	Report results	< 10 fluorescent focus units/mL
<b>Antigen-Capture ELISA<sup>2</sup></b>	Report results	160, <10 (duplicate results)
<b>Sterility (48-hour incubation)<sup>3</sup></b> Harpo's HTYE broth <sup>4</sup> , 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 <sub>2</sub>	No growth No growth No growth No growth No growth No growth No growth	Growth Growth Growth No growth No growth Growth Growth
<b>Mycoplasma Contamination</b> Agar and broth culture (14-day incubation at 37°C) DNA Detection by PCR of Test Article nucleic acid	None detected None detected	Not done None detected

<sup>1</sup>Welch, 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.

<sup>2</sup>Titer 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.

<sup>3</sup>Growth indicates contamination with bacteria and/or fungi.

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

**Date:** 20 JAN 2009

**Signature:** Signature on File

**Title:** Technical Manager, BEI Authentication or designee

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