

**Polyclonal Anti-Porcine Respiratory Coronavirus (PRCoV), ISU-1 (antiserum, Gnotobiotic Pig)**

**Catalog No. NR-460**

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

**Product Description:** Antiserum to the ISU-1 strain of porcine respiratory coronavirus (PRCoV) was produced by immunization of gnotobiotic pigs with the virus.

**Lot: 4730152**

**Manufacturing Date: 23SEP2005**

TEST	SPECIFICATIONS	RESULTS
<b>Plaque Reduction Virus Neutralization Assay<sup>1,4</sup></b>	Report results	1200
<b>Fluorescent Focus Forming Neutralization (FFN) Assay<sup>2,4</sup></b>	Report results	3200
<b>Antigen-Capture ELISA<sup>3,4</sup></b>	Report results	102,400
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>5</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	No growth No growth No growth No growth No growth No growth No growth
<b>Mycoplasma Contamination</b> Agar and broth culture (14-day incubation at 37°C)	None detected	None detected

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

<sup>2</sup>Titer 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. See, 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>3</sup>Titer 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.

<sup>4</sup>All assays were performed against the PRCoV-ISU-1 strain using swine testicular cells.

<sup>5</sup>Atlas, 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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