

**Polyclonal Anti-Bovine Coronavirus (BCoV), Mebus (antiserum, Gnotobiotic Calf)**

**Catalog No. NR-456**

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

**Product Description:** Antiserum to the Mebus strain of bovine coronavirus (BCoV) was produced by immunization of gnotobiotic calves with the virus.

**Lot: 4462791**

**Manufacturing Date: 27JUN2005**

TEST	SPECIFICATIONS	RESULTS
<b>Plaque Reduction Virus Neutralization Assay<sup>1,4</sup></b>	Report results	10,000
<b>Fluorescent Focus Forming Neutralization (FFN) Assay<sup>2,4</sup></b>	Report results	57,000
<b>Antigen-Capture ELISA<sup>3,4</sup></b>	Report results	52,015
<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 a reduction in plaques equal to or greater than 80% compared to controls.

<sup>2</sup>Titer is expressed as the reciprocal of the highest dilution producing a reduction in focus forming units equal to or greater than 80% compared to controls.

<sup>3</sup>Titer is expressed as the reciprocal of the highest dilution with absorbance values greater than or equal to the mean absorbance of the mock-infected control plus three standard deviations and ratio between positive and negative coat greater than or equal to two. See, Cho, K. O., et al. "Evaluation of Concurrent Shedding of Bovine Coronavirus via the Respiratory Tract and Enteric Route in Feedlot Cattle." *Am. J. Vet. Res.* 62 (2001): 1436-1441. PubMed: 11560274.

<sup>4</sup>All assays were performed against the BCoV-Mebus strain (BEI Resources NR-445) using HRT-18 cells. See, Saif, L. J., R. A. Heckert, K. L. Miller, and M. Tarek. "Cell Culture Propagation of Bovine Coronavirus." *J. Tissue Culture Methods* 11 (1988): 139-146.

<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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