

Porcine Respiratory Coronavirus, ISU-1

Catalog No. NR-43286

Derived from BEI Resources NR-448

Product Description: Clarified cell lysate and supernatant from *sus scrofa* testicular fibroblasts¹ infected with porcine respiratory coronavirus (PRCV), ISU-1

Lot²: 61617361

Manufacturing Date: 10JUL2013

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in ST Cells¹	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (410 nucleotides)	Consistent with PRCV, ISU-1	99% identity with PRCV, ISU-1 (GenBank: DQ811787)
Titer by TCID₅₀ Assay^{3,4} in ST Cells¹	Report results	8.9 × 10 ⁶ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 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

¹ST cells (ATCC® CRL-1746™)

²Grown in Eagle's Minimum Essential Medium (ATCC® 30-2003™) for 2 days at 37°C and 5% CO₂

³The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

⁴7 days at 37°C and 5% CO₂

⁵Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 21 OCT 2013

Signature: 

Title: Technical Manager, BEI Authentication or designee

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