

Porcine Respiratory Coronavirus, ISU-1

Catalog No. NR-43286

Derived from BEI Resources NR-448

Product Description:

Porcine respiratory coronavirus (PRCV), ISU-1 was isolated in Indiana in 1990 from a pig with mild or subclinical respiratory infection. It was passaged and plaque purified in swine testicular (ST) cells. NR-43286 lot 70051844 was produced by infecting *Sus scrofa* testicular fibroblasts (ST cells; ATCC® CRL-1746™) with BEI Resources lot 61617364 and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 1% non-essential amino acids (NEAA) (Gibco 11140-050) for 2 days at 37°C with 5% CO₂.

Passage History:

ST(>15, including 3 plaque purifications)/ST(1) (Prior to deposit at BEI Resources/BEI Resources); ST = *Sus scrofa* testicular fibroblasts

Lot: 70051844

Manufacturing Date: 26MAY2022

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TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in ST Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 820 nucleotides)	≥ 98% identity with PRCV, ISU-1 (GenBank: DQ811787)	~ 96% identity with PRCV, ISU-1 (GenBank: DQ811787) ¹
Titer by TCID₅₀ Assay in ST Cells by Cytopathic Effect² (8 days at 37°C with 5% CO ₂)	Report results	1.6 × 10 ⁴ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ³ 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, aerobic	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 extracted Test Article nucleic acid	None detected None detected	None detected None detected

¹Although the sequence has less than 98% identity with the full genome, identification is consistent with the expected genus species/strain.

²The 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.

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

/Sonia Bjorum Brower/

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Technical Manager or designee, ATCC Federal Solutions

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