

Porcine Respiratory Coronavirus, ISU-1

Catalog No. NR-448

For research use only. Not for human use.

NR-448 did not pass the BEI Resources quality control Sterility Test. Please see the Certificate of Analysis to determine whether or not this product is acceptable for your intended use.

Contributor:

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Product Description:

Virus Classification: *Coronaviridae*, *Coronavirus*, Group 1

Species: Porcine respiratory coronavirus (PRCV)

Strain: ISU-1

Original Source: PRCV, ISU-1 was isolated from a nasal swab of a pig with mild or subclinical respiratory infection.

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from swine testicular (ST) cells infected with the ISU-1 strain of PRCV.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-448 was packaged in screw-capped plastic cryovials. The product is provided frozen and should be stored at -70°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Growth Conditions:

Host: ST cells

Growth Medium: Minimum Essential Medium containing Earle's salts, L-glutamine and sodium bicarbonate (supplemented with 1% nonessential amino acids and 1% antibiotics)

Infection: 18 to 24 hours at 37°C

Cytopathic Effect: Fused, enlarged rounded cells, diffuse cytoplasmic vacuolation

Note: PRCV is sensitive to ultraviolet light, high temperature and strong mechanical agitation.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Porcine Respiratory Coronavirus, ISU-1, NR-448."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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References:

- Hill, H. T., et al. "Porcine Respiratory Coronavirus Isolated From Two U. S. Swine Herds." Proc. Am. Assoc. Swine Practitioners 21 (1990): 333.
- Bae, I., et al. "Differentiation of Transmissible Gastroenteritis Virus from Porcine Respiratory Coronavirus and Other Antigenically Related Coronaviruses by Using cDNA Probes Specific for the 5' Region of the S Glycoprotein Gene." J. Clin. Microbiol. 29 (1991): 215-218. PubMed: 1847152.

- Benfield, D. A., et al. "Detection of Transmissible Gastroenteritis Virus using cDNA Probes." *Arch. Virol.* 116 (1991): 91-106. PubMed: 1848070.

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