

Genomic RNA from Alphacoronavirus 1, Purdue P115 (attenuated) (formerly Porcine Transmissible Gastroenteritis Virus)

Catalog No. NR-48571

For research use only. Not for use in humans.

Contributor:

Linda J. Saif, Ph.D., Food Animal Health Research Program, Ohio Agricultural Research and Development Center, Department of Veterinary Preventive Medicine, College of Veterinary Medicine, The Ohio State University, Wooster, Ohio, USA

Manufacturer:

BEI Resources

Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Sus scrofa* testicular fibroblasts (ST cells, ATCC® CRL-1746™) infected with alphacoronavirus 1, Purdue P115 (attenuated). Alphacoronavirus 1, (formerly porcine transmissible gastroenteritis virus), Purdue was isolated from the small intestinal contents of a young pig with diarrhea, vomiting, and dehydration.¹ The virus was propagated in primary porcine kidney (PPK) cells for 115 passages and then in swine testicular (ST) cells for more than 6 passages.² The complete genome of the attenuated Purdue P115 strain has been sequenced (GenBank: [DQ811788](https://www.ncbi.nlm.nih.gov/nuclseq/DQ811788)).³

NR-48571 has been qualified for PCR applications by amplification of an approximately 1160 nucleotide sequence. Recommended dilutions for successful RT-PCR amplification are indicated on the Certificate of Analysis for each lot.

Material Provided:

Each vial contains approximately 100 µL of viral genomic RNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.0). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-48571 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -60°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic RNA from Alphacoronavirus 1, Purdue P115 (attenuated) (formerly Porcine Transmissible Gastroenteritis Virus), NR-48571."

Biosafety Level: 1

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 \(BMBL\)](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers:

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References:

1. ICTV Taxonomy History for Alphacoronavirus 1
2. Bohl, E. H., et al. "Antibody Responses in Serum, Colostrum, and Milk of Swine after Infection or Vaccination with Transmissible Gastroenteritis Virus." *Infect. Immun.* 6 (1972): 289-301. PubMed: 4629259.
3. Zhang, X., et al. "Complete Genomic Sequences, a Key Residue in the Spike Protein and Deletions in Nonstructural Protein 3b of US Strains of the Virulent and Attenuated Coronaviruses, Transmissible Gastroenteritis Virus and Porcine Respiratory Coronavirus." *Virology* 358 (2007): 424-435. PubMed: 17023013.

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