

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

Catalog No. NR-48571

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) (BEI Resources lot 70007016) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70057936

Manufacturing Date: 18JAN2023

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 1050 nucleotides)	≥ 98% identity with alphacoronavirus 1, Purdue P115 (GenBank: DQ811788)	100% identity with alphacoronavirus 1, Purdue P115 (GenBank: DQ811788)
Functional Activity by RT-PCR Amplification¹ Replicase gene	~ 1160 base pair amplicon	~ 1160 base pair amplicon
Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)²	Report results	12.7 ng per 100 µL (0.127 µg/mL)
Estimated Amount per Vial²	Report results	12.7 ng
Virus Inactivation 10% of total yield inoculated on ST cells and evaluated for cytopathic effect after serial passage ³	No viable virus detected	No viable virus detected

¹Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 10 µL of NR-48571 in a 50 µL reaction

²Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

³Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of PTGV as shown by the absence of cytopathic effect (CPE) after plating the entire extract on virus-susceptible cells for two passages.

/Sonia Bjorum Brower/

Sonia Bjorum Brower

22 APR 2023

Technical Manager or designee, ATCC Federal Solutions

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