

## Punta Toro Virus, GML488778

### Catalog No. NR-49730

**For research use only. Not for use in humans.**

#### Contributor:

World Reference Center for Emerging Viruses and Arboviruses (WRCEVA), University of Texas Medical Branch, Galveston, Texas, USA

#### Manufacturer:

BEI Resources

#### Product Description:

Virus Classification: *Phenuiviridae*, *Phlebovirus*

Species: Punta Toro

Strain/Isolate: GML488778

Original Source: Punta Toro virus (PTV), GML488778 was isolated from a human (*Homo sapiens*) in Panama in January 2004 and contributed to WRCEVA by Jean-Paul Carrera, Gorgas Memorial Institute, Panama City, Panama.<sup>1</sup>

Comments: The complete genomes of PTV, GML488778 segments L, M and S have been sequenced (GenBank: [KP272037](#), [KP272038](#) and [KP272039](#)). In order to remove contaminating mycoplasma, the deposited material was passaged three times in the presence of mycoplasma elimination reagent.

PTV is an arthropod-borne RNA virus consisting of three segments of single-stranded RNA designated L (large), M (medium) and S (small), encoding the viral polymerase, envelope glycoprotein and nucleoprotein and a non-structural protein, respectively.<sup>2</sup> PTV was first isolated in 1966 in Panama, from a febrile patient.<sup>3</sup> Infection with viruses in the Punta Toro Complex (PTC) cause febrile illness similar to sandfly or phlebotomus fever.<sup>2,3</sup>

#### Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells infected with PTV, GML488778.

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

#### Packaging/Storage:

NR-49730 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

#### Growth Conditions:

Host: *Cercopithecus aethiops* kidney epithelial cells (Vero E6; ATCC® CRL-1586™)

Growth Medium: Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential

amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate and 1.5 g/L of sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent

Infection: Cells should be 70% to 80% confluent.

Incubation: 5 to 7 days at 37°C and 5% CO<sub>2</sub>

Cytopathic Effect: Cell rounding and sloughing

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH, as part of the WRCEVA program: Punta Toro Virus, GML488778, NR-49730."

#### 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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Tesh, R. B., Personal Communication.
2. Palacios, G., et al. "Characterization of the Punta Toro Species Complex (Genus *Phlebovirus*, Family *Bunyaviridae*)." J. Gen. Virol. 96 (2015): 2079-2085. PubMed: 25934793.
3. Carrera, J.-P., et al. "Clinical Manifestations of Punta Toro Virus Species Complex Infections, Panama, 2009." Emerg. Infect. Dis. 23 (2017): 872-874. PubMed: 28418305.

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