

### Tacaribe Virus, TRVL-11573

#### Catalog No. NR-10175

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#### For research use only. Not for human use.

#### Contributor:

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#### Manufacturer:

NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH

#### Product Description:

Virus Classification: *Arenaviridae*, *Arenavirus*

Species: Tacaribe virus (TCRV)

Strain/Isolate: TRVL-11573

Original Source: Tacaribe virus (TCRV), TRVL-11573 was isolated in 1956 from a fruit-eating bat (*Artibeus lituratus*) in Trinidad<sup>1</sup>

Comment: Both small (S) and large (L) RNA segments of TCRV, TRVL-11573 have been sequenced (GenBank: M20304 and J04340, respectively).<sup>2-5</sup>

TCRV is a new world arenavirus which, although highly homologous to Junin virus and lethal to mice, has low pathogenic potential for humans. TCRV shares a similar genomic organization with all other arenaviruses, displaying a bipartite, ambisense, single-stranded RNA genome.

#### Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from African green monkey kidney cells [VERO C1008 (E6); ATCC® CRL-1586™] infected with TCRV, TRVL-11573.

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

#### Packaging/Storage:

NR-10175 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -70°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: VERO C1008 (E6) cells (ATCC® CRL-1586™)

Growth Medium: Minimum Essential Medium supplemented with 2% irradiated fetal bovine serum, or equivalent

Infection: Cells should be 80-90% confluent (not 100% confluent)

Incubation: 4 to 12 days at 37°C and 5% CO<sub>2</sub>

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Tacaribe Virus, TRVL-11573, NR-10175."

#### 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](http://www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm).

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#### References:

1. Downs, W. G., et al. "Tacaribe Virus, a New Agent Isolated from *Artibeus* Bats and Mosquitoes in Trinidad, West Indies." Am. J. Trop. Med. Hyg. 12 (1963): 640-646.

2. Franze-Fernández, M. T., et al. "Molecular Structure and Early Events in the Replication of Tacaribe Arenavirus S RNA." *Virus Res.* 7 (1987): 309-324. PubMed: 3617928.
3. Iapalucci, S., N. López and M. T. Franze-Fernández. "The 3' End Termini of the Tacaribe Arenavirus Subgenomic RNAs." *Virology* 182 (1991): 269-278. PubMed: 2024465.
4. Iapalucci, S., et al. "Tacaribe Virus L Gene Encodes a Protein of 2210 Amino Acid Residues." *Virology* 170 (1989): 40-47. PubMed: 2718387.
5. Iapalucci, S., et al. "The 5' Region of Tacaribe Virus L RNA Encodes a Protein with a Potential Metal Binding Domain." *Virology* 173 (1989): 357-361. PubMed: 2510403.
6. Pedras-Vasconcelos, J. A., et al. "Immunotherapy with CpG Oligonucleotides and Antibodies to TNF-alpha Rescues Neonatal Mice from Lethal Arenavirus-Induced Meningoencephalitis." *J. Immunol.* 180 (2008): 8231-8240. PubMed: 18523289.
7. Charrel, R. N., X. de Lamballerie and S. Emonet. "Phylogeny of the Genus *Arenavirus*." *Curr. Opin. Microbiol.* 11 (2008): 362-368. PubMed: 18602020.
8. Bowen, M. D., C. J. Peters, and S. T. Nichol. "The Phylogeny of New World (Tacaribe Complex) Arenaviruses." *Virology* 219 (1996): 285-290. PubMed: 8623541.

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