

Certificate of Analysis for NR-51625

Genomic DNA from *Trypanosoma cruzi*, Strain TcVT-1 (axenic epimastigote)

Catalog No. NR-51625

Product Description:

Genomic DNA was extracted from *Trypanosoma cruzi (T. cruzi)*, strain TcVT-1 (epimastigote stage), which was isolated from the blood of a five-year-old female English Cocker Spaniel with Chagas' disease in October 2012 in Lynchburg, Virginia, USA. NR-51625 was extracted from BEI Resources NR-46428 lot 70022534 using proprietary technology. NR-51625 is provided in 10 mM Tris-HCI, 1 mM EDTA, pH 7.5.

Lot: 70051962 Manufacturing Date: 23MAR2022

TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Concentration by PicoGreen® Measurement	0.2 to 3.5 μg in 20 to 200 μL/vial	3 μg in 54 μL/vial (58 μg/mL)
Amount per Vial	0.2 to 3.5 μg	3 µg
Genotypic Analysis Sequencing of putative C-5 sterol desaturase gene (<i>TcSC5D</i>) (~ 770 bases)	≥ 99% sequence identity to <i>T. cruzi</i> Discrete Typing Unit (DTU) <i>T. cruzi</i> I (TcI) (GenBank: JN050567.1)	100% sequence identity to <i>T. cruzi</i> DTU Tcl (GenBank: JN050567.1) ¹
Functional Activity by PCR Amplification TcSC5D gene ²	~ 800 base pair amplicon	~ 800 base pair amplicon
OD ₂₆₀ /OD ₂₈₀ Ratio	1.7 to 2.1	1.9
Protozoan Inactivation 10% of total yield inoculated in Liver Infusion Tryptose (LIT) medium supplemented with 10% heat-inactivated fetal bovine serum and incubated for 14 days at 25°C in an aerobic atmosphere	No viable organisms detected	No viable organisms detected

¹The descriptive concept of "Discrete Typing Unit" (DTU) designates a set of stocks that are genetically more similar to each other than to any other stock, and are identifiable by common genetic, molecular or immunological markers named "tags" [Tibayrenc, M. "Genetic Epidemiology of Parasitic Protozoa and Other Infectious Agents: The Need for an Integrated Approach." <a href="International-Pictory International-Pictory International-

BEI Resources www.beiresources.org E-mail: contact@beiresources.org Tel: 800-359-7370

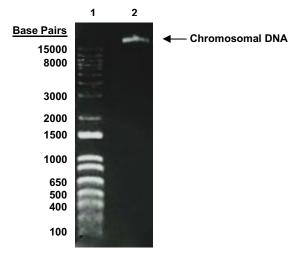
Fax: 703-365-2898

²PCR was performed as described in Cosentino, R. O. and F. Agüero. "A Simple Strain Typing Assay for *Trypanosoma cruzi*: Discrimination of Major Evolutionary Lineages from a Single Amplification Product." <u>PLoS Negl. Trop. Dis.</u> 6 (2012): e1777. PubMed: 22860154.



Certificate of Analysis for NR-51625

Figure 1: Agarose Gel Electrophoresis



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder

Lane 2: ~ 200 ng of NR-51625

/Sonia Bjorum Brower/ Sonia Bjorum Brower

26 FEB 2024

Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898