

Trypanosoma cruzi, Strain TcVT-1

Catalog No. NR-36630

Product Description:

Trypanosoma cruzi (*T. cruzi*), strain TcVT-1 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-36630 was produced by cultivation of BEI Resources seed lot 61877916 BS-C-1 monkey kidney epithelial cells (ATCC® CCL-26™) with DMEM supplemented with 10% heat-inactivated fetal bovine serum (HIFBS) for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ until emergence of trypomastigotes from host cells was observed.

Lot: 70075006

Manufacturing Date: 17APR2025

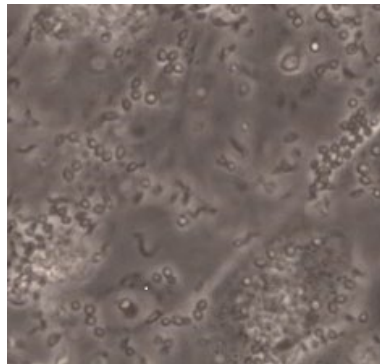
TEST	SPECIFICATIONS	RESULTS
Cellular Morphology¹ 6 days at 37°C in an aerobic atmosphere with 5% CO ₂ in DMEM supplemented with 10% HIFBS	Report results	Elongated, rounded-to-ovoid and motile; parasitophorous vacuoles visible (Figure 1)
Genotypic Analysis² Sequencing of 18S ribosomal RNA (rRNA) gene (~ 2220 base pairs) Sequencing of putative C-5 sterol desaturase gene (<i>TcSC5D</i>) (~ 740 base pairs)	Consistent with <i>T. cruzi</i> ≥ 99% sequence identity to <i>T. cruzi</i> Discrete Typing Unit (DTU) <i>T. cruzi</i> I (TcIV) (GenBank: JN050564.1)	Consistent with <i>T. cruzi</i> 100% sequence identity to <i>T. cruzi</i> DTU TcIV ³ (GenBank: JN050564.1)
Viable Cell Count by Hemacytometry²	> 10 ⁸ cells/mL	1.0 × 10 ⁸ cells/mL
Viability¹ 6 days at 37°C in an aerobic atmosphere with 5% CO ₂ in DMEM supplemented with 10% HIFBS	Growth	Growth
Sterility (14-day incubation)¹ Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic	No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth
Mycoplasma Contamination¹ DNA Detection by PCR	None detected	None detected

¹Testing completed on vial, post-freeze material.

²Testing completed on bulk material prior to vialing and freezing.

³Cosentino, R. O. and F. Agüero. "A Simple Strain Typing Assay for *Trypanosoma cruzi*: Discrimination of Major Evolutionary Lineages from a Single Amplification Product." *PLoS Negl. Trop. Dis.* 6 (2012): e1777. PubMed: 22860154.

Figure 1: Cellular Morphology



/Sonia Bjorum Brower/

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