

Trypanosoma cruzi, Strain TcVT-1 (axenic epimastigote)

Catalog No. NR-46428

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. The culture consists of the epimastigote stage of the parasite's life cycle, which was established by BEI Resources from the trypomastigote form over multiple passages in culture.

Lot¹: 62415822

Manufacturing Date: 21FEB2014

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of 18S ribosomal RNA gene (~ 1570 base pairs)	Consistent with <i>T. cruzi</i>	Consistent with <i>T. cruzi</i> ²
Functional Activity by PCR Amplification 18S ribosomal RNA gene	~ 2500 base pair amplicon	~ 2500 base pair amplicon
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells/mL	1.0 x 10 ⁸ cells/mL
Viability (post-freeze)³	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁴ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Brain heart infusion, 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 No growth No growth No growth No growth

¹An axenic epimastigote culture was established from a frozen subculture of the deposited material (trypomastigote form) over multiple passages in Liver Infusion Tryptose (LIT) medium (ATCC® Medium 1029: adjusted to contain 10% heat-inactivated fetal bovine serum) at 25°C in an aerobic atmosphere, and frozen. NR-46428 was produced by cultivation of the thawed epimastigote culture in LIT medium. After two passages, the culture was propagated for 3 days under cultivation conditions.

²Also consistent with other *Trypanosoma* species

³Viable cells and signs of infection were seen after 3 days under cultivation conditions.

⁴Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 25 JUL 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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