

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.

Lot¹: 61877915

Manufacturing Date: 29JUL2013

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of 18S ribosomal RNA gene (~ 1280 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)³	> 10 ⁶ cells/mL	8.0 x 10 ⁷ cells/mL
Viability (post-freeze)⁴	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 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
Mycoplasma Contamination DNA Detection by PCR	None detected	None detected

¹NR-36630 was produced from a frozen subculture of the deposited material. The subculture was cultivated in BS-C-1 monkey kidney epithelial cells (ATCC[®] CCL-26™) with DMEM (ATCC[®] 30-2002™: adjusted to contain 10% heat-inactivated fetal bovine serum). After two passages, the culture was propagated in 95% air, 5% CO₂ for 9 days at 37°C, until emergence of trypomastigotes from host cells was observed.

²Also consistent with other *Trypanosoma* species, similar identity was found with other members of the subgenus Schizotrypanum, such as *T. erneyi*, *T. dionisii*, and *T. livingstonei*.

³Only trypomastigote-stage parasites were counted

⁴Viable cells and signs of infection were seen after 7 days under cultivation conditions.

⁵Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 20 MAY 2014

Signature:



Title:

Technical Manager, BEI Authentication or designee

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.

