

Trypanosoma cruzi, Strain G

Catalog No. NR-49382

Product Description: *Trypanosoma cruzi* (*T. cruzi*), strain G was isolated from an opossum (family *Didelphidae*) in Amazonas, Brazil.

Lot^{1,2}: 64004707

Manufacturing Date: 26JAN2016

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of putative C-5 sterol desaturase gene (<i>TcSC5D</i>) (~ 830 bases)	≥ 99% sequence identity to <i>T. cruzi</i> Discrete Typing Unit (DTU) <i>T. cruzi</i> I (Tcl)	99.2% sequence identity to <i>T. cruzi</i> DTU Tcl (Figure 1)
Functional Activity by PCR Amplification <i>TcSC5D</i> ³	~ 830 base pair amplicon	~ 830 base pair amplicon
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells/mL	8.3 × 10 ⁸ 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 DMEM with 10% FBS, 37°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

¹NR-49382 was produced by cultivation of the deposited material in in Liver Infusion Tryptose (LIT) medium (ATCC® Medium 1029: adjusted to contain 10% heat-inactivated fetal bovine serum) for 5 days at 25°C in an aerobic atmosphere.

²Quality control testing completed on post-freeze material unless specified as pre-freeze.

³PCR 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." *PLoS Negl. Trop. Dis.* 6 (2012): e1777. PubMed: 22860154.

⁴Viable cells were seen after 1 day at 25°C in an aerobic atmosphere.

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

Figure 1: Sequencing of putative C-5 sterol desaturase gene (*TcSC5D*)

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GTGGCGTTTG  ATTTATATAC  GGCGGTTATT  CCTGTAGATC  GTGACGCGTT  ATCTCATCAA  TTATTTGTTT  TTTGGTTAAT
TCTTACGACT  GGTGGTATAT  TTTTATACCT  TTTATGCGCA  TCCATTTCAA  CATTATCTTT  TTTTGTGTTA  TTTGAGGAAA
CTTATTTTCC  TCACACGATG  GATAAAAAAA  ATCAAAAAACA  TGAATTACAA  CGACAAATGT  TACATGAGAT  ATTTATTGCG
GTTCTTTCTA  TTCCTTTTAT  GGCAATATTA  ATGGCCCTTT  CTTCTACCTT  TGCCACCGT  GGGTACAGTA  AAATATATTA
CAATGTTTCC  GATTATGGAT  GGTCATATCT  TTTTTTAAGT  ATTTTGATGT  TTTTTATCTT  TACGGATTTT  ATGGTTTATT
GGTTTCATCG  TGGTTTACAT  CATCCACAT  TATACCGATA  TCTTCATAAA  TTACATCATA  CATACAAATA  TACCACACCA
TTTTCATCTC  ATGCATTTAA  TCCTTGTGAT  GGATTTGGTC  AAGGTTTACC  ATATTATGCA  TTTATTTTTT  TATTTTCTAT
GCATAATTAT  CTTTTTGTTA  TTCTCTTTTT  TGCCGYAAT  TTATGGACCA  TCTCCATTCA  CGATCAGGTG  GATTTTGGGG
GGCATTTTGT  TAACACAACC  GGACATCATA  CAATTCATCA  TGTACTTTTT  AATTACGACT  ACGGACAATA  CTTACCGTA
TGGGATCGTA  TTGGTGAAC  GTATAAACCG  GCACAACAGA  CGCATCATTT  CCCGTTATTT  ACAAAGGTG  GTCGTAATGA
AGAAATGAAG  TCAACGAAGA  AGATGGGAA
    
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Certificate of Analysis for NR-49382

Date: 20 JUL 2016

Signature:



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