

Certificate of Analysis for NR-49380

Trypanosoma cruzi, Strain Dm28c

Catalog No. NR-49380

Product Description:

Trypanosoma cruzi (T. cruzi), strain Dm28c is a clone derived from *T. cruzi*, strain Dm28. Strain Dm28 was isolated in 1984 from an opossum (*Didelphis marsupialis*) in Carabobo, Venezuela. Strain Dm28c was deposited to BEI Resources as the epimastigote stage of the parasite's life cycle. NR-49380 was produced by cultivation of BEI Resources seed lot 64004704 in Liver Infusion Tryptose (LIT) medium supplemented with 10% heat-inactivated fetal bovine serum (HIFBS) for 3 days at 25°C in an aerobic atmosphere with the cap screwed on tightly.

Lot: 70057111 Manufacturing Date: 12DEC2022

TEST	SPECIFICATIONS	RESULTS
Cell Morphology ¹ 4 days at 37°C in an aerobic atmosphere in LIT medium	Report results	Rosettes visible
supplemented with 10% HIFBS		
Genotypic Analysis ²		
Sequencing of putative C-5 sterol desaturase gene (TcSC5D) (730 base pairs)	≥ 99% sequence identity to T. cruzi Discrete Typing Unit (DTU) T. cruzi I (TcI) (GenBank: JN050567.1)	99.3% sequence identity to T. cruzi DTU Tcl (GenBank: JN050567.1) ³
Sequencing of putative <i>TcSC5D</i> (~ 780 base pairs)	≥ 99% sequence identity to T. cruzi, Strain Dm28c (GenBank: AYLP01000049.1)	99.2% sequence identity to T. cruzi, Strain Dm28c (GenBank: AYLP01000049.1)
Viable Cell Count by Hemacytometry ²	> 1 × 10 ⁶ cells per mL	1 × 10 ⁸ cells per mL
Viability ¹	Growth	Growth
4 days at 37°C in an aerobic atmosphere in LIT medium supplemented with 10% HIFBS		
Sterility (21-day incubation) ¹		
Harpo's HTYE broth, 37°C and 26°C, aerobic ⁴	No growth	No growth
Trypticase soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
DMEM with 10% FBS, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth

¹Testing completed on vialed, post-freeze material.

/Sonia Bjorum Brower/ Sonia Bjorum Brower

08 AUG 2023

Technical Manager or designee, ATCC Federal Solutions

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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." <u>PLoS Negl. Trop. Dis.</u> 6 (2012): e1777. PubMed: 22860154.

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