

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. NR-49382 was produced by cultivation of BEI Resources seed lot 64004708 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 to produce this lot.

Lot: 70057113

Manufacturing Date: 08DEC2022

TEST	SPECIFICATIONS	RESULTS
Cell Morphology¹ 1 day at 37°C in an aerobic atmosphere in LIT medium supplemented with 10% HIFBS	Report results	Elongated; rosettes visible
Genotypic Analysis² Sequencing of putative C-5 sterol desaturase gene (<i>TcSC5D</i>) (730 base pairs) Sequencing of putative <i>TcSC5D</i> (800 base pairs)	≥ 99% sequence identity to <i>T. cruzi</i> Discrete Typing Unit (DTU) <i>T. cruzi</i> I (Tcl) (GenBank: JN050567.1) ≥ 99% sequence identity to <i>T. cruzi</i> , Strain G (GenBank: MKKV01000040.1)	99.3% sequence identity to <i>T. cruzi</i> DTU Tcl (GenBank: JN050567.1) ³ 99.8% sequence identity to <i>T. cruzi</i> , Strain G (GenBank: MKKV01000040.1)
Viable Cell Count by Hemacytometry²	> 10 ⁶ cells per mL	1.7 × 10 ⁸ cells per mL
Viability¹ 1 day at 37°C in an aerobic atmosphere in LIT medium supplemented with 10% HIFBS	Growth	Growth
Sterility (21-day incubation)¹ Harpo's HTYE broth, 37°C and 26°C, aerobic ⁴ 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

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.

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

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