

**Trypanosoma cruzi, Strain Brazil (axenic epimastigote)**

**Catalog No. NR-53932**

**Product Description:**

*Trypanosoma cruzi* (*T. cruzi*), strain Brazil was isolated from a human patient in Brazil. NR-53932 was produced by cultivation of the deposited material 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.

**Lot: 70042682**

**Manufacturing Date: 11MAR2021**

TEST	SPECIFICATIONS	RESULTS
<b>Cell Morphology<sup>1</sup></b> 1 day at 25°C in an aerobic atmosphere in LIT medium supplemented with 10% HIFBS	Report results	Elongated and rounded, motile, rosettes visible
<b>Genotypic Analysis<sup>2</sup></b> Sequencing of putative C-5 sterol desaturase gene ( <i>TcSC5D</i> ) (~ 780 base pairs)  Sequencing of putative <i>TcSC5D</i> (~ 780 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 Brazil Clone A (GenBank: WNWZ01000401.1)	99.2% sequence identity to <i>T. cruzi</i> DTU Tcl (GenBank: JN050567.1) <sup>3</sup>  99.8% sequence identity to <i>T. cruzi</i> , Strain Brazil Clone A (GenBank: WNWZ01000401.1)
<b>Viable Cell Count by Hemacytometry<sup>2</sup></b>	> 10 <sup>6</sup> cells per mL	2.1 × 10 <sup>8</sup> cells per mL
<b>Viability<sup>1</sup></b> 1 day at 25°C in an aerobic atmosphere in LIT medium supplemented with 10% HIFBS	Growth	Growth
<b>Sterility (21-day incubation)<sup>1</sup></b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>4</sup> 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

<sup>1</sup>Testing completed on vial, post-freeze material.

<sup>2</sup>Testing completed on bulk material prior to vialing and freezing.

<sup>3</sup>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.

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

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05 JAN 2022

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