

Trypanosoma cruzi, Strain Brazil (trypomastigote)

Catalog No. NR-55285

Product Description:

Trypanosoma cruzi (*T. cruzi*), strain Brazil was isolated from a human patient in Brazil. Strain Brazil was deposited to BEI Resources as the trypomastigote stage of the parasite's life cycle. NR-55285 was produced by cultivation of the deposited material in human foreskin fibroblast cells (ATCC® CRL-1634™) with Dulbecco's Minimal Essential Medium (DMEM) supplemented with 10% heat-inactivated fetal bovine serum (HIFBS). The culture was propagated for 7 days at 37°C in an aerobic atmosphere with 5% CO₂ until emergence of trypomastigotes from host cells was observed.

Lot: 70043413

Manufacturing Date: 19APR2021

TEST	SPECIFICATIONS	RESULTS
Cell Morphology¹ 2 days at 37°C in an aerobic atmosphere with 5% CO ₂ in DMEM supplemented with 10% HIFBS	Report results	Elongated and rounded and motile; parasitophorous vacuoles visible
Genotypic Analysis² Sequencing of putative C-5 sterol desaturase gene (<i>TcSC5D</i>) (~ 730 base pairs) Sequencing of putative <i>TcSC5D</i> (~ 801 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) ³ 99.8% sequence identity to <i>T. cruzi</i> , Strain Brazil Clone A (GenBank: WNWZ01000401.1)
Viable Cell Count by Hemacytometry²	> 10 ⁶ cells per mL	3.2 × 10 ⁷ cells per mL
Viability¹ 2 days at 37°C in an aerobic atmosphere with 5% CO ₂ in DMEM 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
Mycoplasma Contamination¹ DNA Detection by PCR	None detected	None detected

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.

/Heather Couch/

Heather Couch

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