

Trypanosoma cruzi, Strain CL

Catalog No. NR-49381

Product Description:

Trypanosoma cruzi (*T. cruzi*), strain CL was isolated in 1963 from naturally infected *Triatoma infestans* (kissing bug) collected from a house in Rio Grande do Sul, Encruzilhada, Brazil. NR-49381 was produced by cultivation of BEI Resources seed lot 64004705 in Liver Infusion Tryptose (LIT) medium supplemented with 10% heat-inactivated fetal bovine serum (HIFBS) for 5 days at 25°C in an aerobic atmosphere.

Lot: 70040222

Manufacturing Date: 30NOV2020

TEST	SPECIFICATIONS	RESULTS
Cell Morphology¹ 1 day at 25°C in an aerobic atmosphere in LIT medium supplemented with 10% HIFBS	Report results	Elongated and tapered, rosettes visible
Genotypic Analysis¹ Sequencing of putative C-5 sterol desaturase gene (<i>TcSC5D</i>) (~ 700 base pairs) ²	≥ 99% sequence identity to <i>T. cruzi</i> Discrete Typing Unit (DTU) <i>T. cruzi</i> VI (TcVI) (GenBank: XM_797152.1)	100% sequence identity to <i>T. cruzi</i> DTU TcVI (GenBank: XM_797152.1)
Viable Cell Count by Hemacytometry³	> 10 ⁶ cells per mL	4.6 × 10 ⁷ cells per mL
Viability¹ 1 day at 25°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.

²Cosentino, 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.

³Testing completed on bulk material prior to vialing and freezing.

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

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07 APR 2021

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