

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.

Lot^{1,2}: 64004702

Manufacturing Date: 08FEB2016

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of putative C-5 sterol desaturase gene (<i>TcSC5D</i>) (~ 800 bases)	≥ 99% sequence identity to <i>T. cruzi</i> Discrete Typing Unit (DTU) <i>T. cruzi</i> I (Tcl)	99.1% sequence identity to <i>T. cruzi</i> DTU Tcl
Functional Activity by PCR Amplification <i>TcSC5D</i> ³	~ 830 base pair amplicon	~ 830 base pair amplicon
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells/mL	3.1 × 10 ⁸ cells/mL
Viability (post-freeze)⁴	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 37°C and 26°C, aerobic 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

¹NR-49380 was produced by cultivation of the deposited material in in Liver Infusion Tryptose (LIT) medium (ATCC® Medium 1029: adjusted to contain 10% heat-inactivated fetal bovine serum) for 3 days at 25°C in an aerobic atmosphere.

²Quality control testing completed on post-freeze material unless specified as pre-freeze.

³PCR was performed as described in 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.

⁴Viable cells were seen after 1 day at 25°C in an aerobic atmosphere.

⁵Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 04 AUG 2016

Signature:



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