

Genomic DNA from *Trypanosoma cruzi*, Strain Dm28c

Catalog No. NR-50236

Product Description: Genomic DNA was extracted from *Trypanosoma cruzi* (*T. cruzi*), strain Dm28c. 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.

Lot¹: 64104303

Manufacturing Date: 18FEB2016

TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Content by PicoGreen [®] Measurement	1 µg to 3 µg per vial	5 µg in 100 µL per vial (50 µg/mL) ²
Genotypic Analysis Sequencing of putative C-5 sterol desaturase gene (<i>SC5D</i>) (~ 780 bases)	≥ 99% sequence identity to <i>T. cruzi</i> Discrete Typing Unit (DTU) <i>T. cruzi</i> I (TcI) ≥ 99% sequence identity to <i>T. cruzi</i> , strain DM28 Sc5D (GenBank: JN050567.1)	99.9% sequence identity to <i>T. cruzi</i> DTU TcI 99.3% sequence identity to <i>T. cruzi</i> , strain DM28 Sc5D (GenBank: JN050567.1)
PCR Assay of Extracted DNA <i>SC5D</i> ²	~ 800 base pair amplicon	~ 800 base pair amplicon
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	1.8
Protozoan Inactivation 10% of total yield plated on Liver Infusion Tryptose (LIT) medium ³	No viable organisms detected	No viable organisms detected

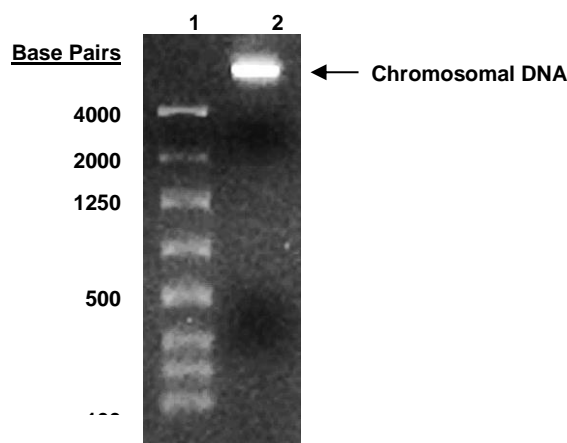
¹NR-50236 was extracted from an established culture of the deposited material that was also used to produce NR-49380 (Lot 64004702). Genomic DNA was extracted using proprietary technology. NR-50236 lot 64104303 is provided in 10 mM TrisHCl, 1 mM EDTA, pH 7.5.

²The amount of genomic DNA in the vial exceeds the current specifications, but does not negatively impact the final product.

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.

⁴Incubated in LIT medium (ATCC[®] Medium 1029: adjusted to contain 10% heat-inactivated fetal bovine serum) for 14 days at 25°C in an aerobic atmosphere.

Figure 1: Agarose Gel Electrophoresis



Lane 1: Lonza FlashGel[™] DNA Marker
 Lane 2: 200 ng of NR-50236

Certificate of Analysis for NR-50236

Date: 07 MAR 2017

Signature:



BEI Resources Authentication

ATCC[®], on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC[®]'s knowledge.

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