

Toxoplasma gondii, Strain ME49 (B7 Clone), Genome Sequenced Strain

Catalog No. NR-20729

Product Description:

Toxoplasma gondii (*T. gondii*), strain ME49 (B7 clone) was derived from strain ME49 which was passed singly through a cat and then further cloned by limiting dilution to produce the B7 clone. NR-20729 was deposited to BEI Resources as the prototype II isolate that was sequenced as part of the *Toxoplasma gondii* Genome Project at the J. Craig Venter Institute's Genomic Center for Infectious Diseases (GCID). NR-20729 was produced by cultivation of BEI Resources seed lot 59907717 in human foreskin fibroblast cells (ATCC® CRL-1634™) in Dulbecco's Minimal Essential Medium (DMEM) supplemented with 10% (v/v) heat-inactivated fetal bovine serum (HIFBS) for 6 days at 37°C in an aerobic atmosphere with 5% CO₂ until lysis of the host cell monolayer was reached. Quality control testing was completed under propagation conditions unless otherwise noted.

Lot: 70042657

Manufacturing Date: 22MAR2021

TEST	SPECIFICATIONS	RESULTS
Cell Morphology¹ 2 days at 37°C in an aerobic atmosphere with 5% CO ₂ in DMEM supplemented with 10% HIFBS in human foreskin fibroblast cells (ATCC® CRL-1634™)	Report results	Refractive; tachyzoites visible
Genotypic Analysis² Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 530 base pairs)	≥ 99% sequence identity to <i>T. gondii</i> , strain ME49 (GenBank: CM002046.1)	100% sequence identity to <i>T. gondii</i> , strain ME49 (GenBank: CM002046.1)
Viable Cell Count by Hemacytometry¹	> 10 ⁶ cells per mL	1.8 × 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 in human foreskin fibroblast cells (ATCC® CRL-1634™)	Growth	Growth
Sterility (21-day incubation)¹ Harpo's HTYE broth, 37°C and 26°C, aerobic ³ 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 Contamination 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.

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

Figure 1: *T. gondii*, Strain ME49 (B7 clone) - UPRT Intron 1 Sequence

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AAACGACCAG GAAGAAAGCA TTCTCCAGGA CATCATCAGC AGGTAATCCT TCAACCGAAG TTTGCTTTCC GTGACTCTGC CTGTTGGTTA TACTGCGTGG
CCTTCCCGTC CTGCGGCCCC CTTTCCCTCCG CTTGCTGTTT AAATGCTCGT CCTCGTTTTT CTTCCTGCCG CATCCCCGTA TATTTTAAGG AGAGGGAAAC
AGGCGTGAGT TGGACGGCAT GAAAGTTCTC GGCCTGTATG CCGGTTGTGG CGGTCGTTTG CAGATTGCTT TTTTCTTCGA ATCGGTGCTG TAACCCCTCGC
GAAGAACGAC GCTGCAAACG ACTTCTCGAA CTCTCAGTCG TGTACTTTAC GTGCTTCCTT TCAGGGACCT CCCCCCGCGT TACTCATTG TATTCACAGC
TACGAAGTGT CTTGCAAGGT GGATTTCTGC CAGGCTCCAT GTCTCACTCG TTGCGTTTTT GAAAAGTTC ATTGTGAACG TTCCCCTTGC GTGTCATGAC
TTTATCAGGT TTCCCAATGT GGTGCTCAT

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/Heather Couch/

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09 MAY 2022

Program Manager or designee, ATCC Federal Solutions

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