

Toxoplasma gondii, Strain GT1

Catalog No. NR-20728

Product Description:

Toxoplasma gondii (*T. gondii*), strain GT1 was isolated in 1979 by J. P. Dubey from the skeletal muscle of a goat with toxoplasmosis in Magnetic Springs, Ohio. NR-20728 was produced by cultivation of BEI Resources seed lot 63464826 in human foreskin fibroblast cells (ATCC® CRL-1634™) with Dulbecco's Minimal Essential Medium (DMEM) supplemented with 10% (v/v) heat-inactivated fetal bovine serum (HIFBS) for 4 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: 70071850

Manufacturing Date: 25OCT2024

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TEST	SPECIFICATIONS	RESULTS
Cell Morphology¹ 7 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; crescent-shaped tachyzoites visible
Genotypic Analysis² Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 530 base pairs) (Figure 1)	Consistent with <i>T. gondii</i> , haplotype I ≥ 99% sequence identity to <i>T. gondii</i> , strain GT1 (GenBank: AAQM03000146.1)	Consistent with <i>T. gondii</i> , haplotype I ³ 100% sequence identity to <i>T. gondii</i> , strain GT1 (GenBank: AAQM03000146.1)
Viable Cell Count by Hemacytometry²	> 10 ⁶ cells/mL	1.9 × 10 ⁸ cells/mL
Viability¹ 7 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 (14-day incubation)¹ Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°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
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.

³Haplotype identification is based on a sequence alignment of NR-20728 lot 70071850 to a reference sequence provided by the depositor. See Figure 1 for sequence.

Figure 1: *T. gondii*, Strain GT1 – UPRT Intron 1 Sequence

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GACAAACGAC CAGGAAGAAA GCATTCTCCA GGACATCATC ACGAGGTAAT CCTTCAACCG AAGTTTGCTT TCCGTGACTC
TGCTGTGG TTATACTGCG TGGCCTTCCC GTCCTGCGGC CCCCTTTCCT CCGCTTGCTG TTTAAATGCT CGTCCTCGTT
TTCCTTCTG CCGCATCCCC GTATATTTTA AGGAGAGGGA AACAGGCGTG AGTTGGACGG AATGAAAGTT CTCGGCCTGT
ACGCCGGTTG TCGCGGTCGT TTGCAGATTG CTTTTTCTT CGAATCGGTG CTGTAACCCT CGCGAAGAAC GACGCTGCAA
ACGACTTCTC GAACTCTCAG TCGTGTACTT TACGTGCTTC CTTTCAGGGA CTTCCCTCTG CGTTACTCAT TTGTATTAC
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AGCTACGAAG TGTCTTGCAA GGTGGATTCC TGCCAGGCTC CATGTCTCAC TCGGTGCGTT TTCGGAAAAG TTCATTGTGA
ACGTTCCCCT TCGGTGTCAT GACTTTATCA GGTTTCCCAA TGTGGTGCTC ATG

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