

**Toxoplasma gondii, Strain GT1**

**Catalog No. NR-20728**

**Product Description:** *Toxoplasma gondii* (*T. gondii*), strain GT1 was isolated from a goat with toxoplasmosis in Magnetic Springs, Ohio in 1979. Strain GT1 was deposited as a prototype type I strain and is a reference strain for the *Toxoplasma gondii* Genome Project at the J. Craig Venter Institute's Genomic Sequencing Center for Infectious Diseases (GSCID).

**Lot<sup>1</sup>: 63464827**

**Manufacturing Date: 16APR2015**

TEST	SPECIFICATIONS	RESULTS
<b>Genotyping</b> Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 550 base pairs)	Consistent with <i>T. gondii</i> , haplotype I	Consistent with <i>T. gondii</i> , haplotype I (Figure 1) <sup>2</sup>
<b>Functional Activity by PCR Amplification<sup>3</sup></b> UPRT intron 1	~ 560 bp amplicon	~ 560 bp amplicon
<b>Viable Cell Count by Hemacytometry (pre-freeze)</b>	> 10 <sup>6</sup> cells/mL	1.5 x 10 <sup>7</sup> cells/mL
<b>Viability (post-freeze)<sup>4</sup></b>	Growth	Growth
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>5</sup> , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud dextrose 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
<b>Mycoplasma Contamination</b> DNA Detection by PCR	None detected	None detected

<sup>1</sup>NR-20728 was produced by cultivation of BEI Resources NR-20728 lot 59907708 in human foreskin fibroblast cells (ATCC® CRL-1634™) with cell cultivation medium for parasites [ATCC medium 2222: adjusted to contain 10% heat-inactivated fetal bovine serum (HIFBS)]. The culture was propagated for 3 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> until lysis of the host cell monolayer was reached.

<sup>2</sup>100% sequence identity to *T. gondii*, strain GT1 (GenBank: AAQM03000146.1)

<sup>3</sup>Primer sequences, annealing temperatures, and conditions for restriction enzyme digestion may be obtained at the *Toxoplasma* Genome Map website ([Toxoplasma Genome Map](http://ToxoplasmaGenomeMap.org)).

<sup>4</sup>Viable cells and signs of infection were seen after 3 days at 35°C in human foreskin fibroblast cells (ATCC® CRL-1634™) with cell cultivation medium for parasites (ATCC medium 2222: adjusted to contain 10% HIFBS).

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

**Figure 1: *Toxoplasma gondii*, Strain GT1 - UPRT Intron 1 Sequence**

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TCCCGATATT CGACAAACGA CCAGGAAGAA AGCATTCTCC AGGACATCAT CACGAGGTAA TCCTTCAACC GAAGTTTGCT TTCCGTGACT CTGCCTGTTG
GTTATACTGC GTGGCCTTCC CGTCCTGCGG CCCCCTTTTC TCCGCTTGCT GTTTAAATGC TCGTCCTCGT TTTCTTCTCT GCCGCATCCC CGTATATTTT
AAGGAGAGGG AAACAGGCGT GAGTTGGACG GAATGAAAGT TCTCGGCCTG TACGCCGTTT GTCGCGGTCG TTTGCAGATT GCTTTTTTCT TCGAATCGGT
GCTGTAACCC TCGCGAAGAA CGACGCTGCA AACGACTTCT CGAACTCTCA GTCGTGTACT TTACGTGCTT CCTTTCAGGG ACCTCCCCCT GCGTTACTCA
TTTGATTTCA CAGCTACGAA GTGTCTTGCA AGGTGGATTC CTGCCAGGCT CCATGTCTCA CTCGGTGCGT TTTCCGAAAA GTTCATTGTG AACGTTCCCC
TTGCGTGTCA TGACTTTTATC AGGTTTCCCA ATGTGGTGCT CATGAAGC
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**Date:** 11 JAN 2016

**Signature:**



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