

Toxoplasma gondii, Strain MAS

Catalog No. NR-20731

Product Description:

Toxoplasma gondii (*T. gondii*), strain MAS was isolated from a human with severe congenital toxoplasmosis in France in 1991. Strain MAS was deposited as a prototype strain for the type IV haplogroup 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). NR-20731 was produced by cultivation of BEI Resources seed lot 59962535 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: 70082529

Manufacturing Date: 05MAY2026

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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 (~ 540 base pairs) (Figure 1)	≥ 99% sequence identity to <i>T. gondii</i> , strain MAS (GenBank: AEXC02000144.1)	100% sequence identity to <i>T. gondii</i> , strain MAS (GenBank: AEXC02000144.1)
Viable Cell Count by Hemacytometry²	> 10 ⁶ cells/mL	1.5 × 10 ⁷ 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.

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

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CAAACGACCA GGAAGAAAGC ATTCTCCAGG ACATCATCAC GAGGTAATCC TTCAACCGAA GTTTGCTTTC CGTGACTCTG
CCTCTTGTTT ATACTGCGTG GCCTTCCCGT CCTGCGGCC CTTTCTCTCC GCTTGCTGTT TAAATGCTCG TCCTCGTTTT
CCTTCTGCC GCATCCCGT ATATTTTAAG GAGAGGGAAA CAGGCGTGAG TTGGACGAA TGAAAGTTCT CGGCCTGTAC
GCCGGTTGTC GCGGTCGTTT GCAGATTGCT TTTTCTTCG AATCGGTGCT GTAACCCTCG AAGAAGAAGC ACGCTGCAAA
CGACTTGTCG AACTCTCAGT CGTGACTTT ACGTGCTTC TTTAGGGAC CTCCCTCCGC GTTACTCATT TGTATTCACA
GCTACGAAGT GTCTTGCAAG GTGGATTCTG GCCAGGCTCC ATGTCTCACT CGGTGCGTTT TCGGAAAAGT TCATTGTGAA
CGTCCCCTT GCGTGTATG ACTTTATCAG GTTTCCCAAT GTGGTGCTCA TGAAGC
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24 SEP 2026

Technical Manager or designee, ATCC Federal Solutions

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