

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).

Lot¹: 59962532

Manufacturing Date: 04AUG2011

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 470 bp)	Consistent with <i>T. gondii</i> , haplotype IV	Consistent with <i>T. gondii</i> , haplotype IV ² (Figure 1)
Functional Activity by PCR Amplification³ UPRT intron 1	~ 560 bp amplicon	~ 560 bp amplicon
Viable Cell Count by Hemacytometry (pre-freeze)	> 10 ⁶ cells/mL	4 x 10 ⁷ cells/mL
Viability (post-freeze)⁴	Growth	Growth
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Brain heart infusion, 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 No growth No growth No growth No growth
Mycoplasma Contamination DNA Detection by PCR	None detected	None detected

¹NR-20731 was produced by cultivation of the deposited material 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). The culture was propagated in 95% air, 5% CO₂ for 5 days at 37°C, until lysis of the host cell monolayer was reached.

²Haplotype identification is based on a sequence alignment of NR-20731, lot 59962532, to a reference sequence provided by the depositor. See figure 1 for NR-20731 sequence.

³Primer sequences and conditions for PCR are available upon request.

⁴Viable cells and signs of infection were seen after 8 days under cultivation conditions at 37°C.

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

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

```

CTGATAAAGT CATGACACGC AAGGGGAACG TTCACAATGA ACTTTTCCGA AAACGCACCG AGTGAGACAT GGAGCCTGGC
ACGAATCCAC CTTGCAAGAC ACTTCGTAGC TGTGAATACA AATGAGTAAC GCGGAGGGAG GTCCCTGAAA GGAAGCACGT
AAAGTACACG ACTGAGAGTT CGACAAGTCG TTTGCAGCGT CGTTCCTTCTT CGAGGGTTAC AGCACCGATT CGAAGAAAAA
AGCAATCTGC AAACGACCGC GACAACCGGC GTACAGGCCG AGAACTTTCA TTCCGTCCAA CTCACGCCTG TTTCCCTCTC
CTTAAAATAT ACGGGGATGC GGCAGGAAGG AAAACGAGGA CGAGCATTTA AACAGCAAGC GGAGGAAAAG GGGCCGCAGG
ACGGGAAGGC CACGCAGTAT AACCAAGAGG CAGAGTCACG GAAAGCAAAC TTCGGTTGAA GGATTAC
    
```

Date: 14 SEP 2015

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.

ATCC[®] is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

