

Toxoplasma gondii, Strain ARI

Catalog No. NR-31080

Product Description: *Toxoplasma gondii* (*T. gondii*), strain ARI was isolated in 1992 from a human transplant patient in the United States. Strain ARI was deposited as a prototype strain for the type XII 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: 60374447

Manufacturing Date: 13OCT2011

TEST	SPECIFICATIONS	RESULTS
Genotyping Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 470 bp)	Consistent with <i>T. gondii</i> , haplotype XII	Consistent with <i>T. gondii</i> , haplotype XII 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	7.6 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-31080 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 3 days at 37°C, until lysis of the host cell monolayer was reached.

²Haplotype identification is based on a sequence alignment of NR-31080, lot 60374447, to a reference sequence provided by the depositor. See figure 1 for NR-31080 sequence.

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

⁴Viable cells and signs of infection were seen after 6 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 ARI - UPRT Intron 1 Sequence

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GTAATCCTTC AACCGAAGTT TGCTTTCGGT GACTCTGCCT GTTGGTTATA CTGCGTGGCC TTCCCCTCCT GCGGCCCCCT
TTCCTCCGCT TGCTGTTTAA ATGCTCGTCC TCGTTTTCTT TCCTGCCGCA TCCCCGTATA TTTTAAGGAG AGGGAAACAG
CGGTGAGTTG GACGGCATGA AAGTTCTCGG CCTGTATGCC GGTGTGTGGC GTCGTTTGCA GATTGCTTTT TTCTTCGAAT
CGGTGCTGTA ACCCTCGCGA AGAACGACGC TGCAAACGAC TTCTCGAACT CTCAGTCGTG TACTTTACGT GCTTCCTTTC
AGGGACCTCC CCCC CGTTA CTCATTTGTA TTCACAGCTA CGAAGTGTCT TGCAAGGTGG ATTTCTGCCA GGCTCCATGT
CTCACTCGTT GCGTTTTTCGG AAAAGTTCAT TGTGAACGTT CCCCTTGCGT GTCATGACTT TATCAG
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Date: 26 MAR 2012

Signature: 

Title: Technical Manager, BEI Authentication or designee

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