

**Toxoplasma gondii, Strain COUG**

**Catalog No. NR-31081**

**Product Description:** *Toxoplasma gondii* (*T. gondii*), strain COUG was isolated in 1996 from a cougar in Canada. Strain COUG was deposited as a prototype strain for the type XI haplogroup and is a reference strain for the *Toxoplasma gondii* Genome Project at the J. Craig Ventor Institute's Genomic Sequencing Center for Infectious Diseases (GSCID).

**Lot<sup>1</sup>: 60374448**

**Manufacturing Date: 07OCT2011**

TEST	SPECIFICATIONS	RESULTS
<b>Genotyping</b> Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 460 bp)	Consistent with <i>T. gondii</i> , haplotype XI	Consistent with <i>T. gondii</i> , haplotype XI <sup>2</sup> (Figure 1)
<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	2.5 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 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
<b>Mycoplasma Contamination</b> DNA Detection by PCR	None detected	None detected

<sup>1</sup>NR-31081 was produced by cultivation of the deposited material in human foreskin fibroblast cells (ATCC<sup>®</sup> CRL-1634<sup>™</sup>) 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% CO<sub>2</sub> for 7 days at 37°C, until lysis of the host cell monolayer was reached.

<sup>2</sup>Haplotype identification is based on a sequence alignment of NR-31081, lot 60374448, to a reference sequence provided by the depositor. See figure 1 for NR-31081 sequence.

<sup>3</sup>Primer sequences and conditions for PCR are available upon request.

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

<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 COUG - UPRT Intron 1 Sequence**

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CATGACACGC AAGGGGAACG TTCACAATGA ACTTTTCCGA AAACGCACCG AGTGAGACAT GGAGCCTGGC AGAAATCCAC
CTTGCAAGAC ACTTCGTAGC TGTGAATACA AATGAGTAAC GCGGGGGGAG GTCCCTGAAA GGAAGCACGT AAAGTACACG
ACTGAGAGTT CGAGAAGTCG TTTGCAGCGT CGTTCTTCGC GAGGGTTACA GCACCGATTG GAAGAAAAAA GCAATCTGCA
AACGACCGCG ACAACGGGCG TACAGGCCGA GAACTTTCAT TCCGTCCAAC TCACGCCTGT TTCCCTCTCC TTAAAATATA
CGGGGATGCG GCAGGAAGCA AAACGAGGAC GAGCATTAA ACAGCAAGCG GAGGAAAGGG GGCCGCAGGA CGGGAAGGCC
ACGCAGTATA ACCAAGAGGC AGAGTCACGG AAAGCAAAC TCGATTGAAG GATTAC
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**Date:** 26 MAR 2012

**Signature:** 

**Title:** Technical Manager, BEI Authentication or designee

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