

**Toxoplasma gondii, Strain P89**

**Catalog No. NR-20737**

**Product Description:** *Toxoplasma gondii* (*T. gondii*), strain P89 was isolated from a porcine heart in Iowa in 1991. Strain P89 was deposited as a prototype strain for the type IX 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).

**Lot<sup>1</sup>: 59758080**

**Manufacturing Date: 03APR2011**

TEST	SPECIFICATIONS	RESULTS
<b>Genotyping</b> Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 470 bp)	Consistent with <i>T. gondii</i> , haplotype IX	Consistent with <i>T. gondii</i> , haplotype IX <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	8 x 10 <sup>6</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-20737 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 3 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-20737, lot 59758080, to a reference sequence provided by the depositor. See figure 1 for NR-20737 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 6 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 P89 - UPRT Intron 1 Sequence**

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GTAATCCTTC AACCGAAGTT TGCTTTCCGT GACTCTGCCT CTTGGTTATA CTGCGTGGCC TTCCCGTCCT GCCGCTCCCT
TTCTCCGCT TGCTGTTTAA ATGCTCGTCC TCGTTTTCCCT TCCTGCCGCA TCCCGTATA TTTAAGGAG AGGGAAACAG
GCATGAGTTG GACGAAATGA AAGTTCTCGG CCTGTACGCC GGCTGTCGCG GTCGTTTGCA GATTGCTTTT TTCTTCGAAT
CGGTGCTGTA ACCCTCGCGA AGAACGACGC TGCAAACAAC TTCTCGAACT CTCAGTCGTG TACTTTACGT GCTTCCTTC
AGGGACCTCC CCCCgcgTta CTCATTTGTA TTCACAGCTA CGAAGTGTCT TGCAAGGTGG ATTCGTGCCA GGCTCCATGT
CTCACTCGGT GCGTTTTTCGG AAAAGTTCAT TGTGAACGTT CCCCTTGCCT GTCATGACTT TATCAG
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## Certificate of Analysis for NR-20737

**Date:** 23 SEP 2011

**Signature:**



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

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