

**Toxoplasma gondii, Strain TgCatBr5**

**Catalog No. NR-20736**

**Product Description:** *Toxoplasma gondii*, strain TgCatBr5 was isolated from a domestic cat in Brazil in 2003. Strain TgCatBr5 was deposited as a prototype strain for the type VIII 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>: 59758079**

**Manufacturing Date: 17MAR2011**

TEST	SPECIFICATIONS	RESULTS
<b>Genotyping</b> Sequencing of uracil phosphoribosyltransferase (UPRT) intron 1 (~ 470 bp)	Consistent with <i>T. gondii</i> , haplotype VIII	Consistent with <i>T. gondii</i> , haplotype VIII <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-20736 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 6 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-20736, lot 59758079, to a reference sequence provided by the depositor. See figure 1 for NR-20736 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 7 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 TgCatBr5 - UPRT Intron 1 Sequence**

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GTAATCCTTC AACC GAAGTT TGCTTCCGT GACTCTGCCT CTTGGTTATA CTGCGTGGCC TTCCCGTCCT GCGGCCCCCT
TTCTCCGCT TGCTGTTTAA ATGCTCGTCC TCGTTTTCTT TCCTGCCGCA TCCCGTATA TTTTAAGGAG AGGGAAACAG
GCGTGAGTTG GACGGAATGA AAGTTCTCGG CCTGTACGCC GGTGTGTCGCG GTCGTTTGCA GATTGCTTTT TTCTTCGAAT
CGGTGCTGTA ACCCTCGAAG AAGAACGACG CTGCAAACGA CTTGTGCAAC TCTCAGTCGT GTACTTTACG TGCTTCCTTT
CAGGGACCTC CCTCCGCGTT ACTCATTTGT ATTCACAGCT ACGAAGTGTG TTGCAAGGTG GATTCGTGCC AGGCTCCATG
TCTCACTCGG TGCGTTTTTCG GAAAAGTTCA TTGTGAACGT TCCCCTTGCG TGTCATGACT TTATCAG
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**Date:** 23 SEP 2011

**Signature:**



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

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